

Title: Method For Selectively Separating Live Cells Expressing A Specific Gene  
Inventors: ISHIBASHI et al.  
Atty Docket No.: 400684/SOEI  
Leydig, Voit & Mayer, Ltd.  
202-737-6770

*Fig. 1*

10 20 30 40 50  
 AUCACUCUCUUAAAUCACUACUCACAGUAACCUAACCUACUCCUGCCACAAGUACAGGAU  
 70 80 90 100 110  
 AACUCUGUCUUGCAUUGCACUAAGUCUUGCACUUGUCACAAACAGUGCACCUACUUC  
ACGTGATT CAGAACGTGAACAGTGTGTTGTC  
 77-91 92-106  
 130 140 150 160 170  
 GUUCUACAAAGAAAACACAGCUACAAACUGGAGCAUUUACUGCUGGAAUUAACAGAUGAU  
 190 200 210 220 230  
 UGAAUGGAAUAAAUAUAAUACAGAAUCCAAACUCACCCAGGAUGCUACAUAAAAGUU  
ATGTTCTTAGGGTTTGAGTGGCTACGAGTGTAAATTCAA  
 198-212 213-227 228-242  
 250 260 270 280 290  
 ACAUGCCCCAAGAAGGCCACAGAACUGAAACAUUCAGUGUCUAGAGAAGAACUCA  
TGTACGGGTTCTTCCGG  
 243-257 287-301  
 310 320 330 340 350  
 CUCUGGAGGAAGUGCUALUUUAGCUAAAGCAAAACUUUACUUAGAACCCCAGGG  
GAGACCTCTTCACGA  
 302-316 342-356  
 370 380 390 400 410  
 UAAUCAGCAAAUCAACGUAAUAGUUCUGGAACUAAAGGGAUCAAAACAUUCAU  
ATTAGTCGTTA  
 357-371  
 430 440 450 460 470  
 GUGAAUAUGCUGAUGAGACAGCAACCAUUGUAGAAUUUCUGAACAGAUGGAAUACCUU  
 490 500 510 520 530  
 GUCAAAGCAUCUCAACACUAACUUGAUAAUUAAGUGCUUCCACUUAAAACAUUA  
 550 560 570 580 590 600  
 GCCCUUCUAAUUUUAAAUAUUAAAUAUUUAUUGUUGAAUGUAUGGUUGGC  
 610 620 630 640 650 660  
 CCUAUUGUAACUAAUUCUAAUCUAAAACUAUAAAUAUGGAUCUUUAUGAUUCU  
 670 680 690 700 710 720  
 UUGUAAGCCCCUAGGGGUCUAAAUGGUUUCACUUUUUAUCCAAAAAUUUUA  
 730 740 750 760 770 780  
 UGUUGAAUGUAAAUAUAGUAUCUAUGUAGAUUGGUAGUAAAACUAUUUA  
 790 800  
 AUAAAUAUAAAAAAAC

## Fig.2

10                    20                    30                    40                    50                    60  
GAUCGUUAGCUUCUCCUGAUAAACUAUUGCCUCACAUUGUCACUGCAAAUCGACACCUA

70                    80                    90                    100                    110                    120  
UUAAUGGGUCUACCUCCAACUGCUUCCCCCUCUGUUUCUCCUGCUAGCAUGUGCCGGC  
[GAGTGGAGGGTTGAC|GAAGGGGGAGACAAG] CG  
70-84                85-99

130                    140                    150                    160                    170                    180  
AACUUUGGUCCACGGACACAAGUGCGAUUAUCACCUUACAGGAGAUCAUAAAACUUUGAAC  
[TTGAAACAGGTGC|CTGTGTTCACGCTAT] ACTTG  
119-133                134-148

190                    200                    210                    220                    230                    240  
AGCCUCACAGAGCAGAAGACUCUGUGCACCAGGUUGACCGUAACAGACAUUUUGCUGCC  
[TCGGAGTGTC|TCGTCTTCTGAGACA] 176-190                191-205

250                    260                    270                    280                    290                    300  
UCCAAGAACACAACUGAGAAGGAAACCUUCUGCAGGGCUGCGACUGUGCUCCGGCAGUUC  
[TGGAAAGACGTCCCGA|CGCTGACACGAGGCC] 265-279                280-294

310                    320                    330                    340                    350                    360  
UACAGCCACCAUGAGAAGGACACUCGCUGCCUGGGUGCGACUGCACAGCAGUUCCACAGG

370                    380                    390                    400                    410                    420  
CACAAGCAGCUGAUCCGAUUCCUGAAACGGCUCGACAGGAACCUUCUGGGGCCUGGCAGGGC  
[GCTAAGGACTTGCC|GAGCTGTCCTGGAG] 376-390                391-405

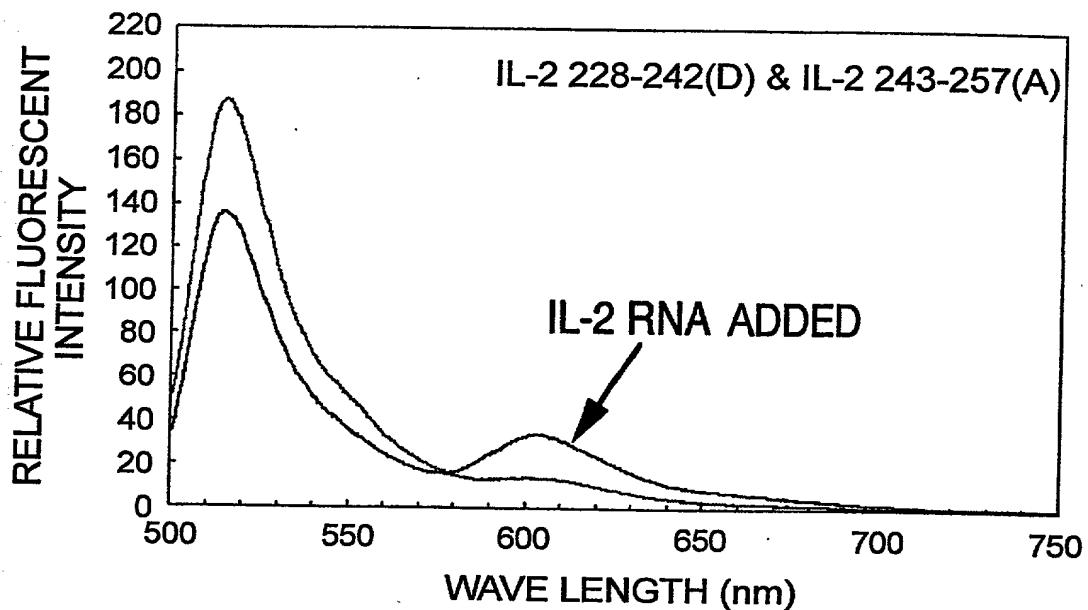
430                    440                    450                    460                    470                    480  
UUGAAUUCUGUCCUGUGAAGGAAGCCAACCAGAGUACGUUGGAAAACUUCUUGGAAAGG

490                    500                    510                    520                    530                    540  
CUAAAGACGAUCAUGAGAGAGAAAUUCAAAAGUGUUCGAGCUGAAUUAUUUAUUAAG

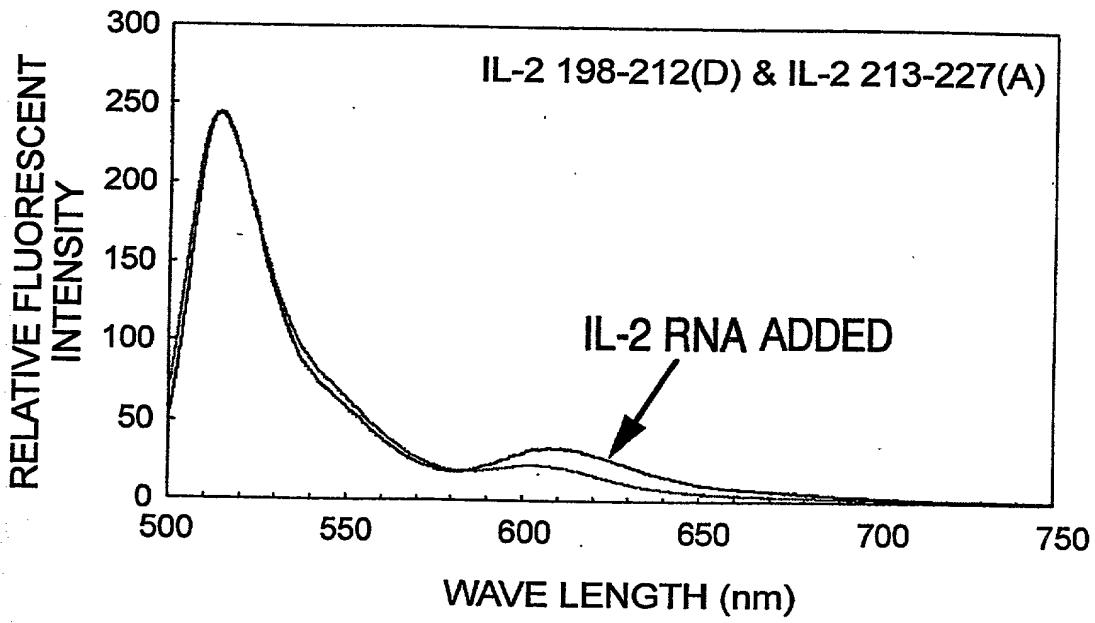
550                    560                    570                    580                    590                    600  
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610  
UUAUAUAGAAUCUAAAA

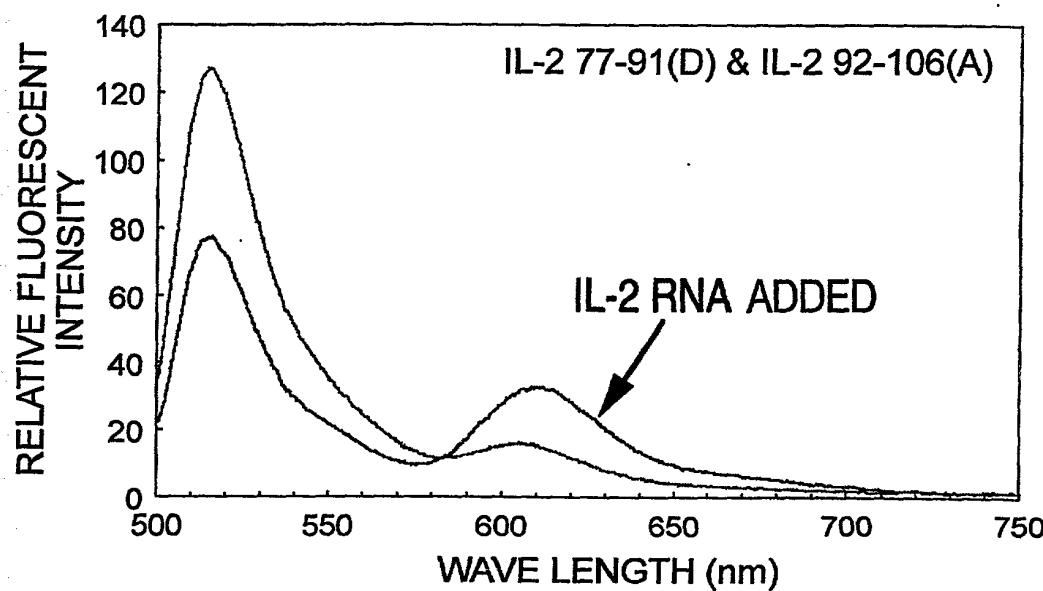
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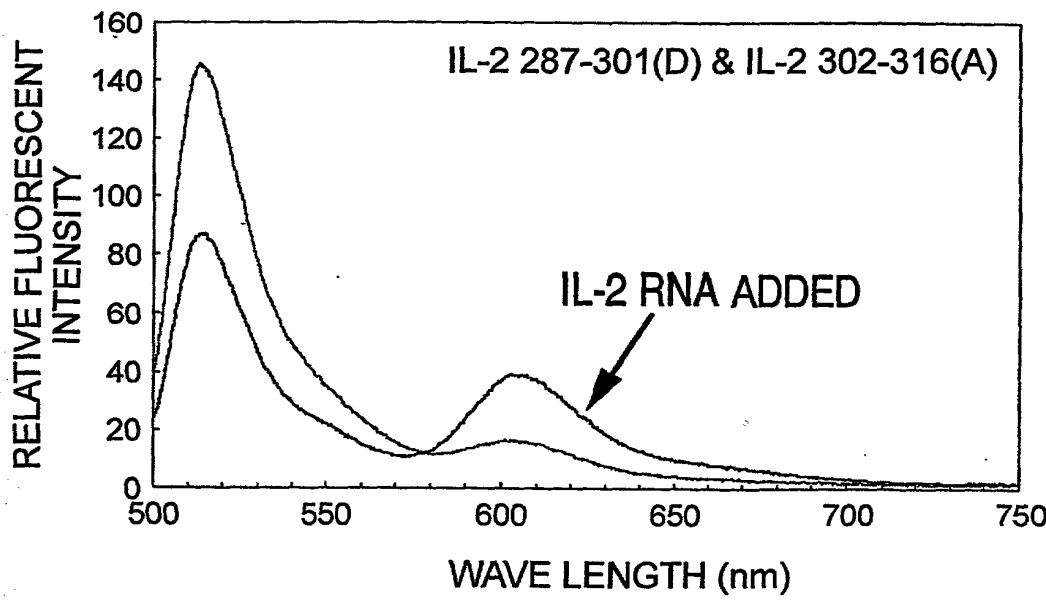
**Fig.4**



**Fig.5**



**Fig.6**



Title: Method For Selectively Separating Live Cells Expressing A Specific Gene

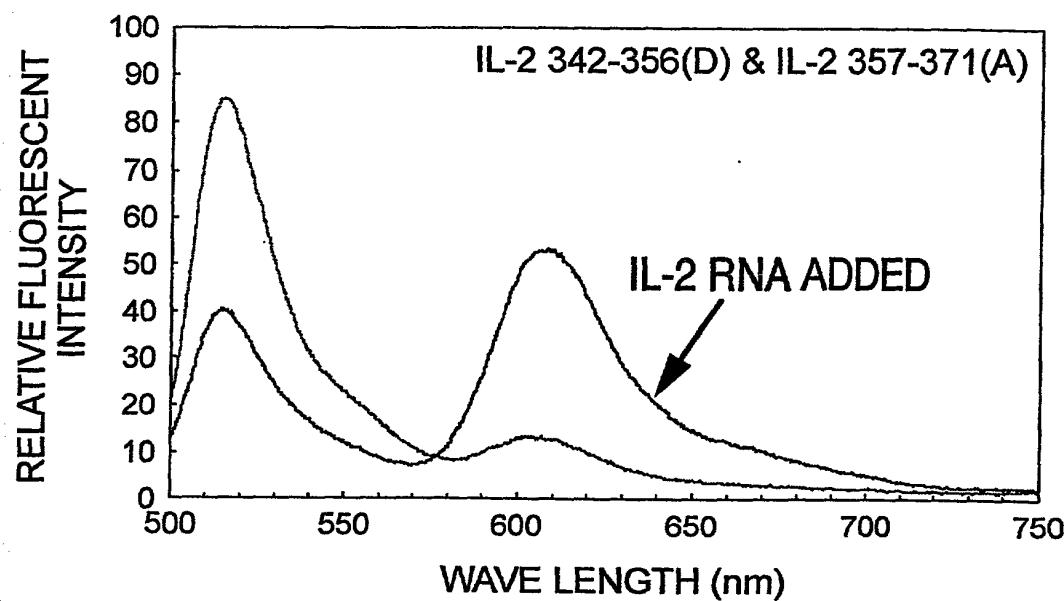
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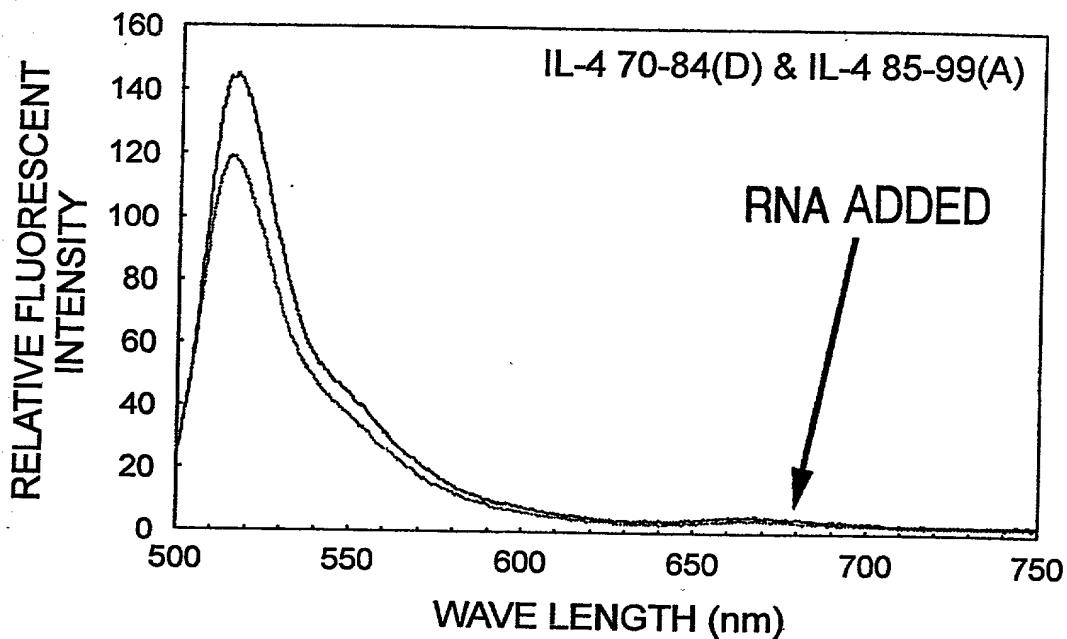
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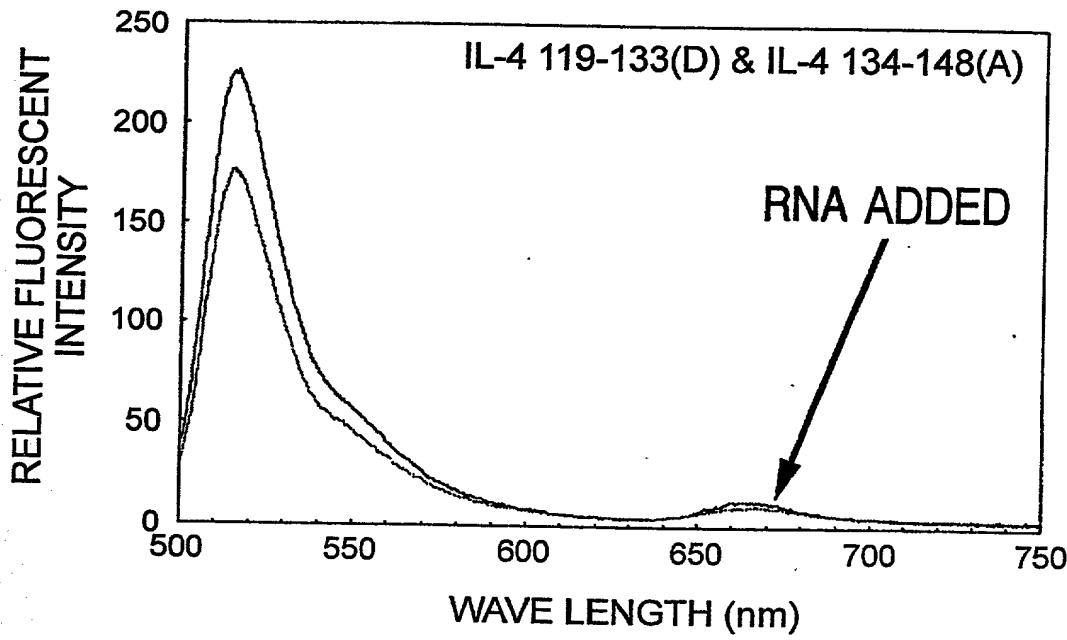
**Fig.7**



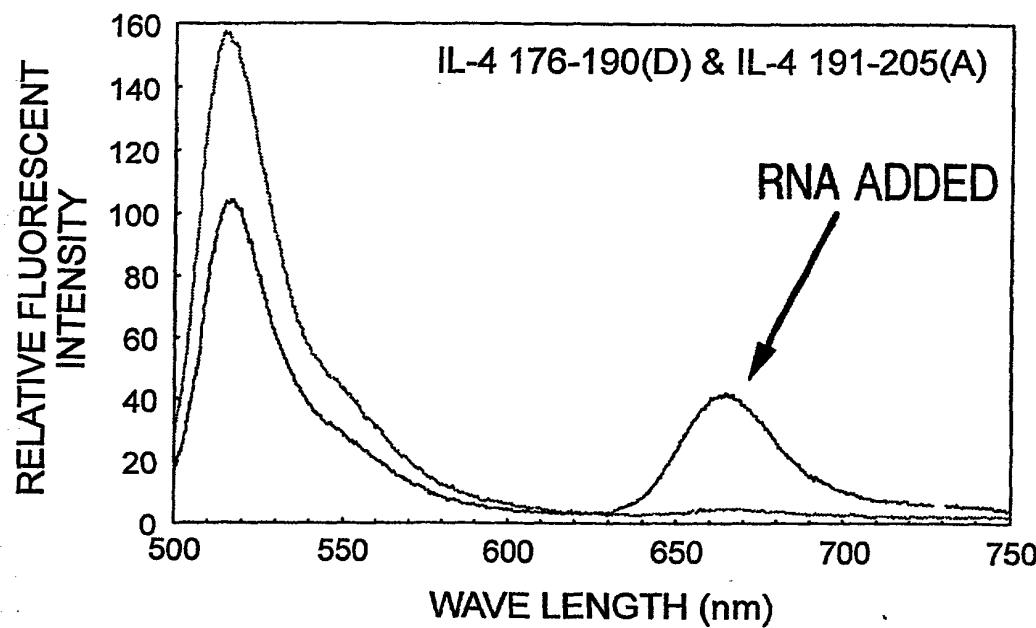
**Fig.8**



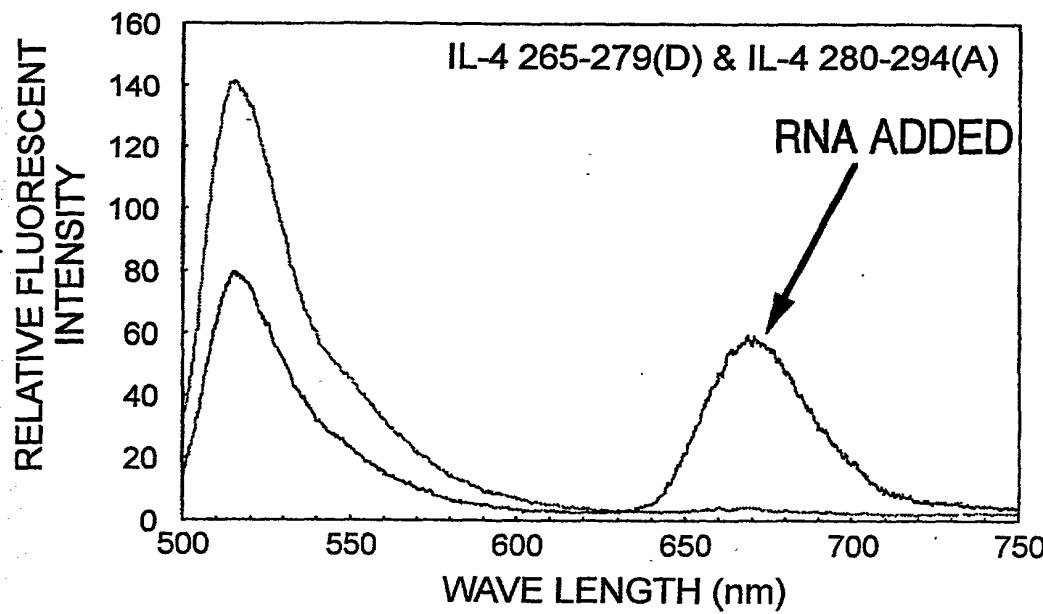
**Fig.9**



**Fig.10**

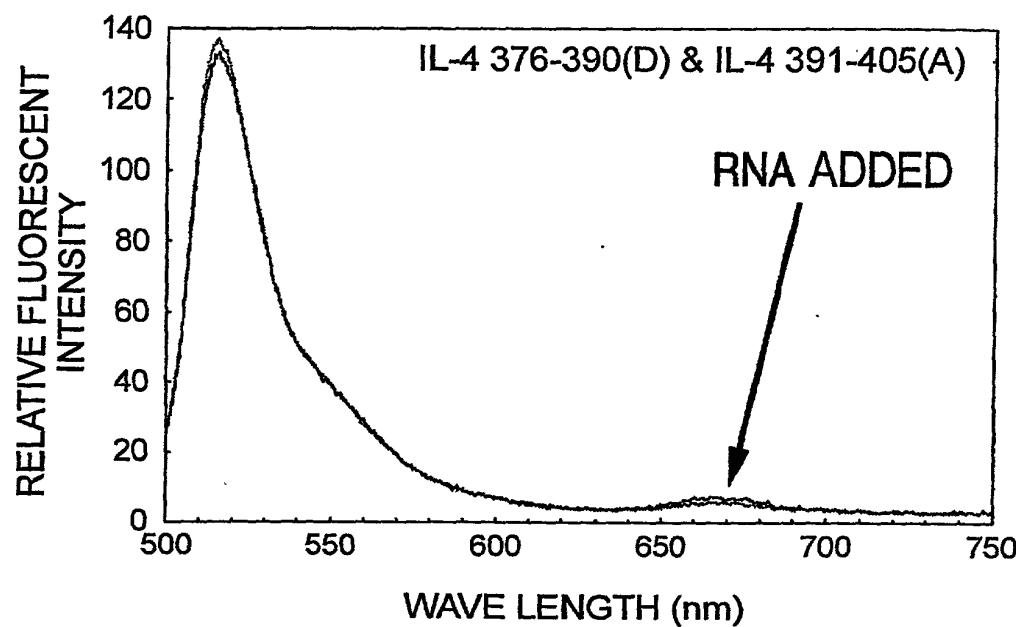


**Fig.11**



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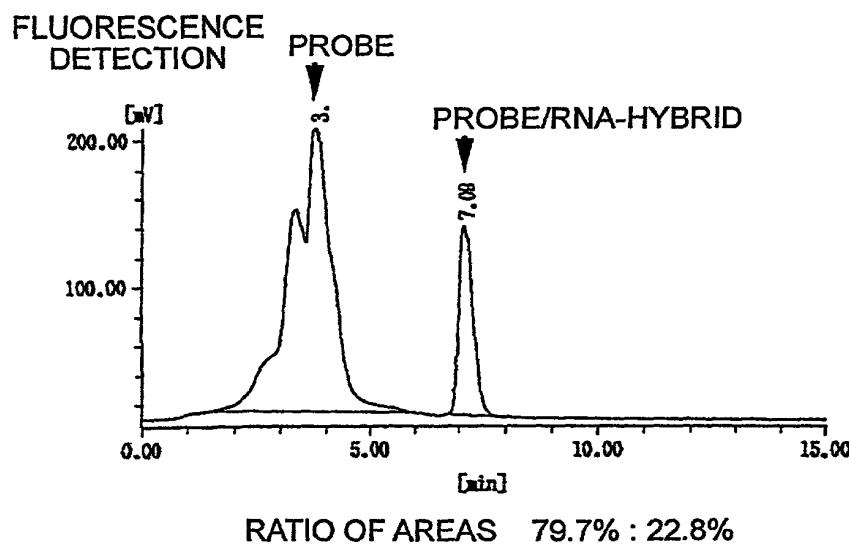
**Fig.12**



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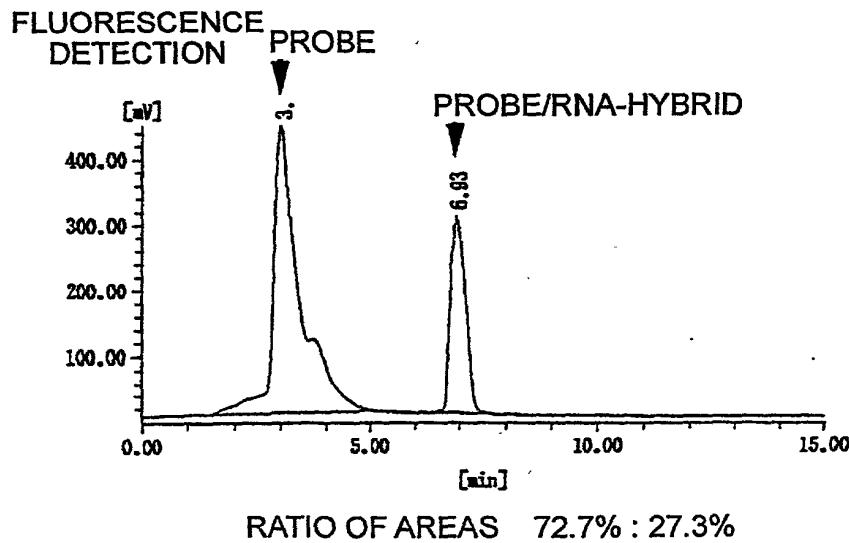
**Fig.13**

IL-2 342-356



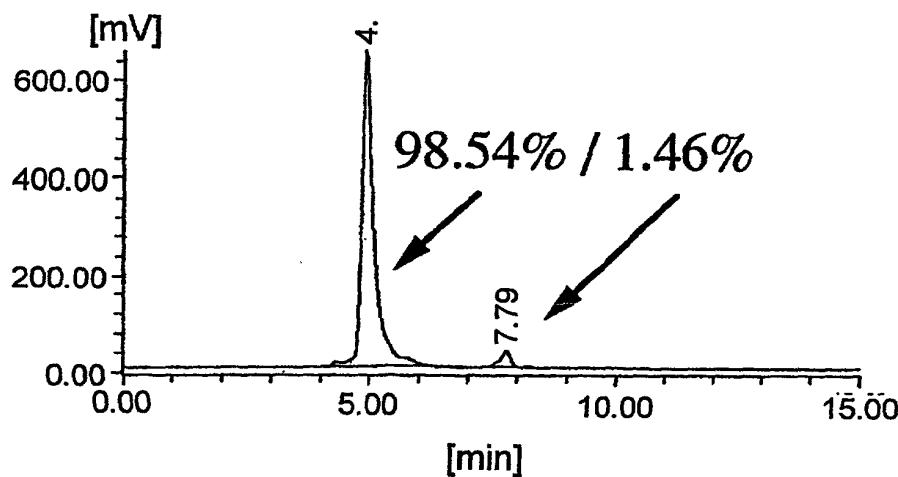
**Fig.14**

IL-2 357-371



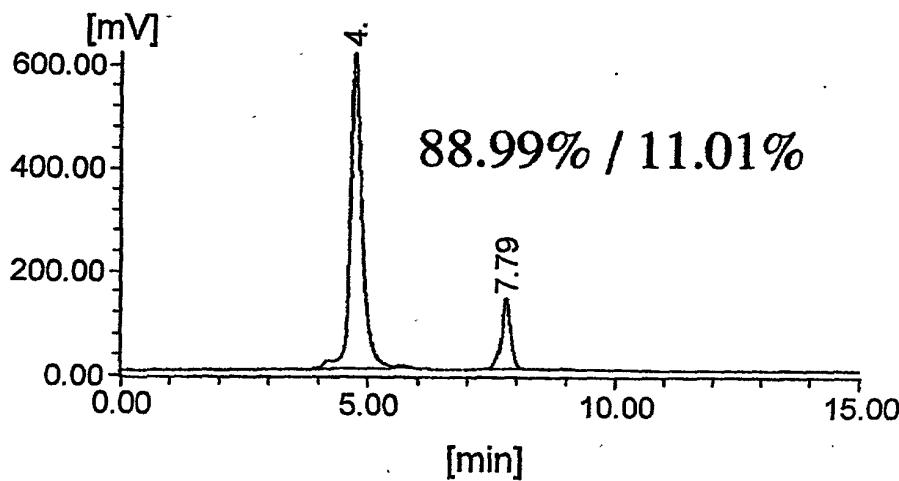
**Fig.15**

IL-4 119-133



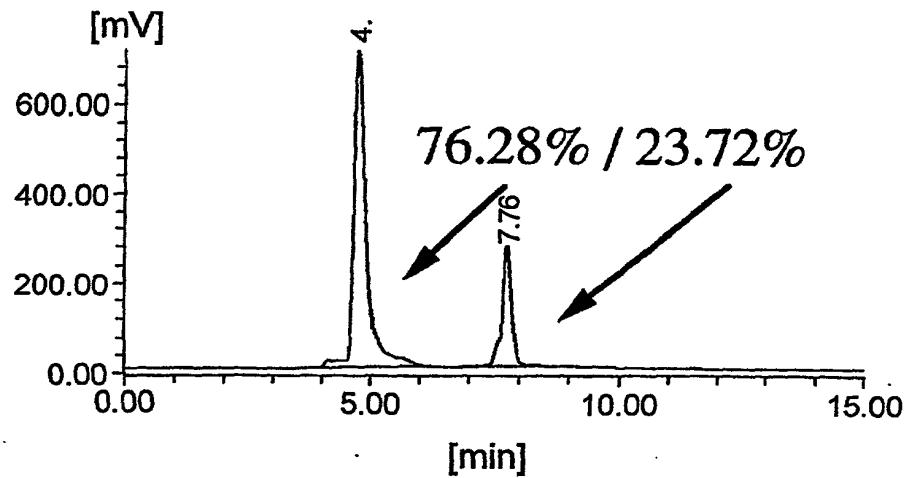
**Fig.16**

IL-4 134-148



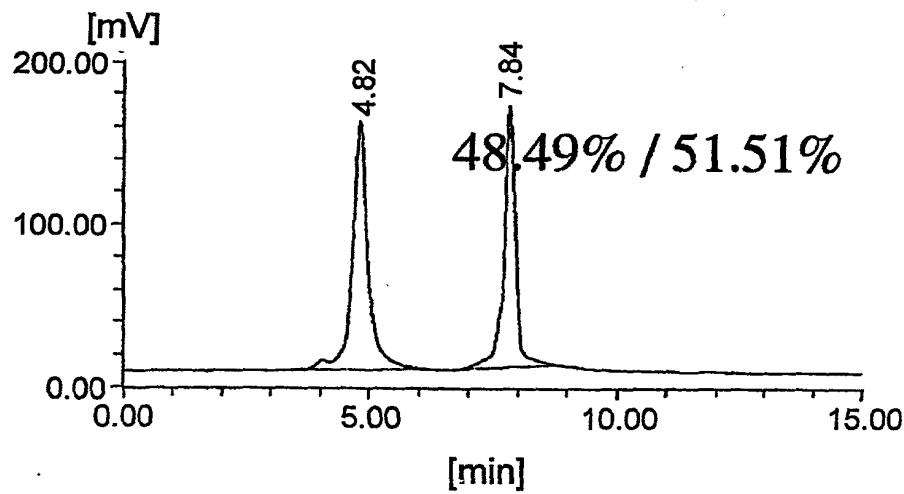
**Fig.17**

IL-4 265-279

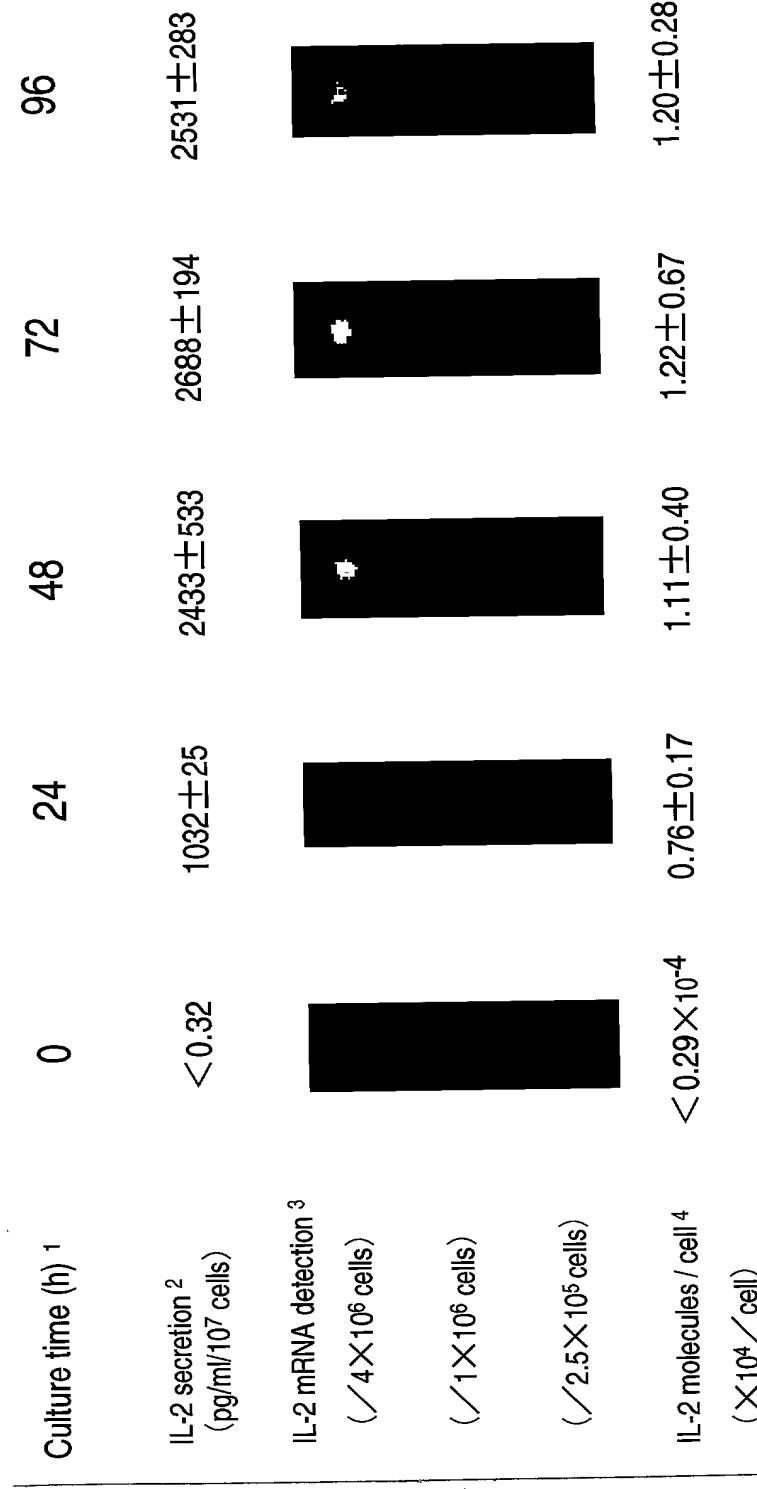


**Fig.18**

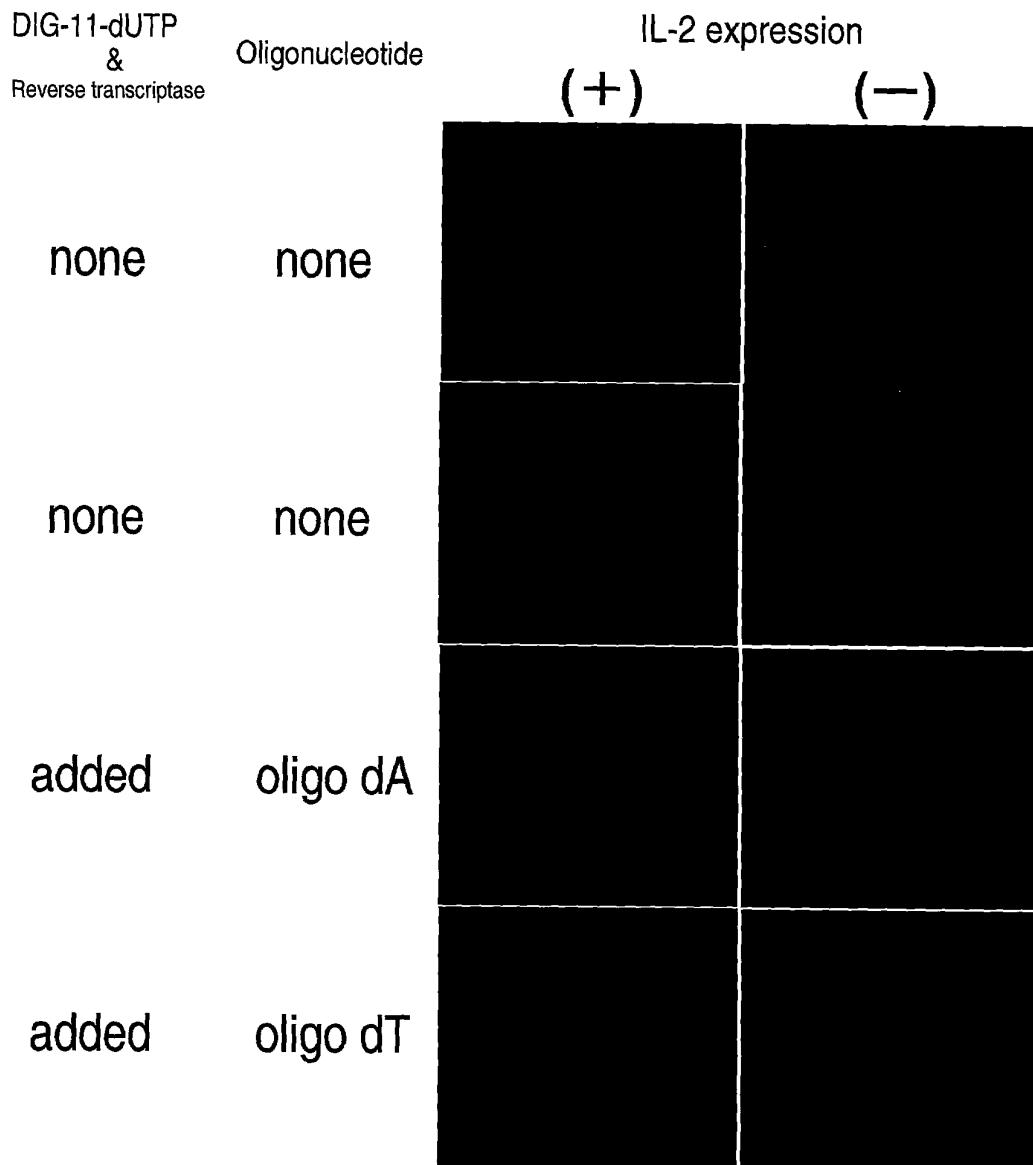
IL-4 280-294



## Fig. 19



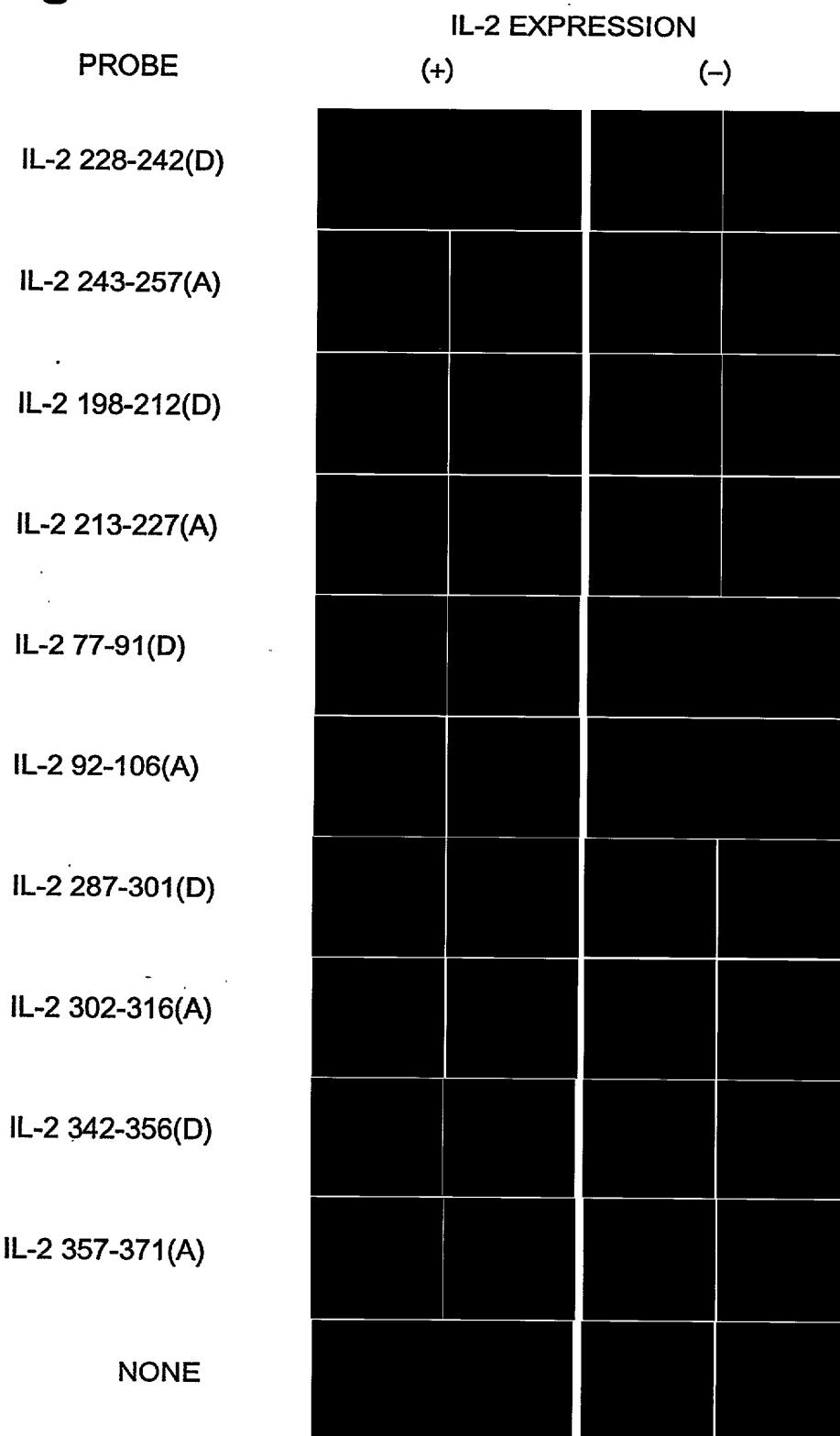
**Fig.20**



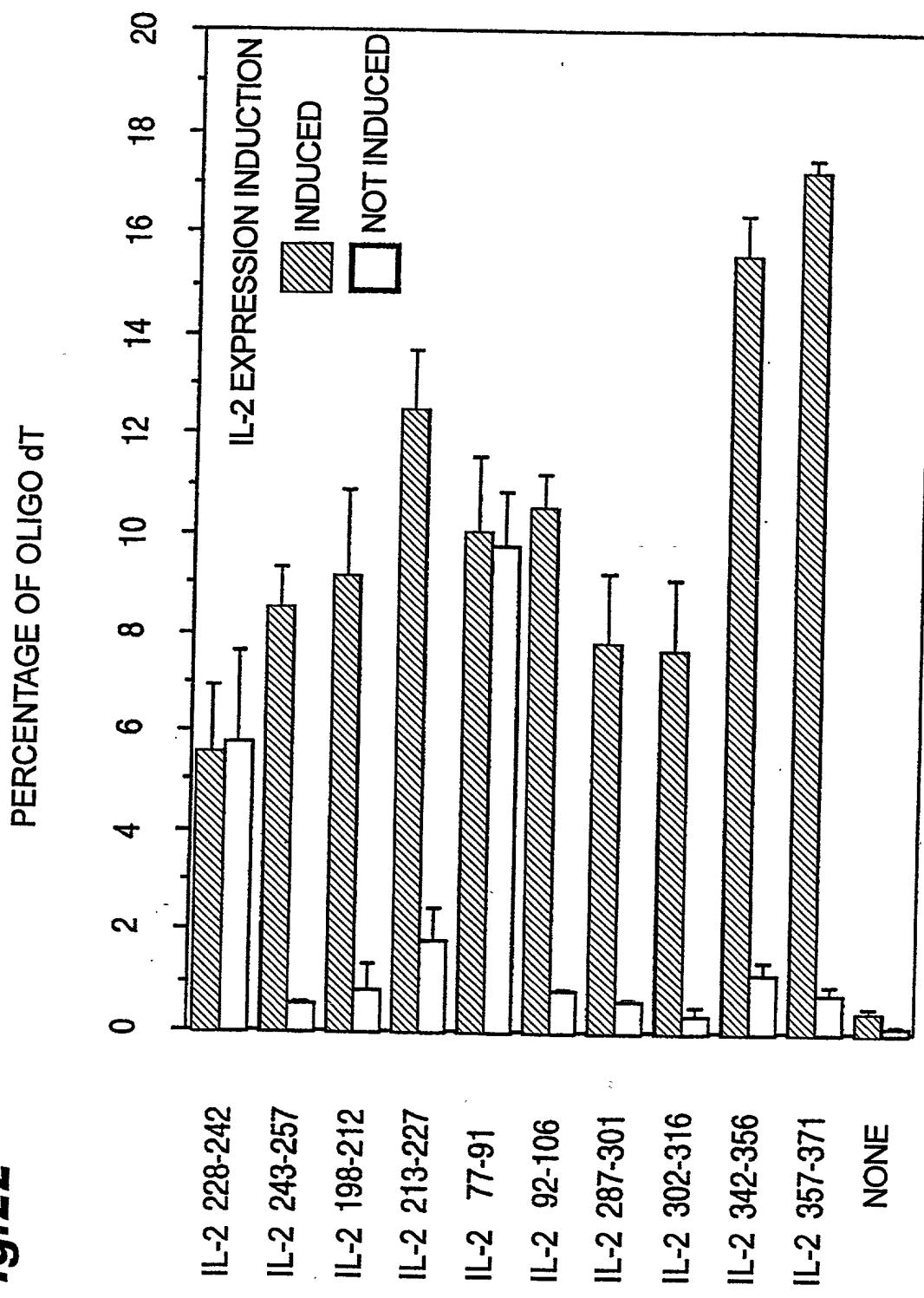
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## Fig.21



**Fig. 22**



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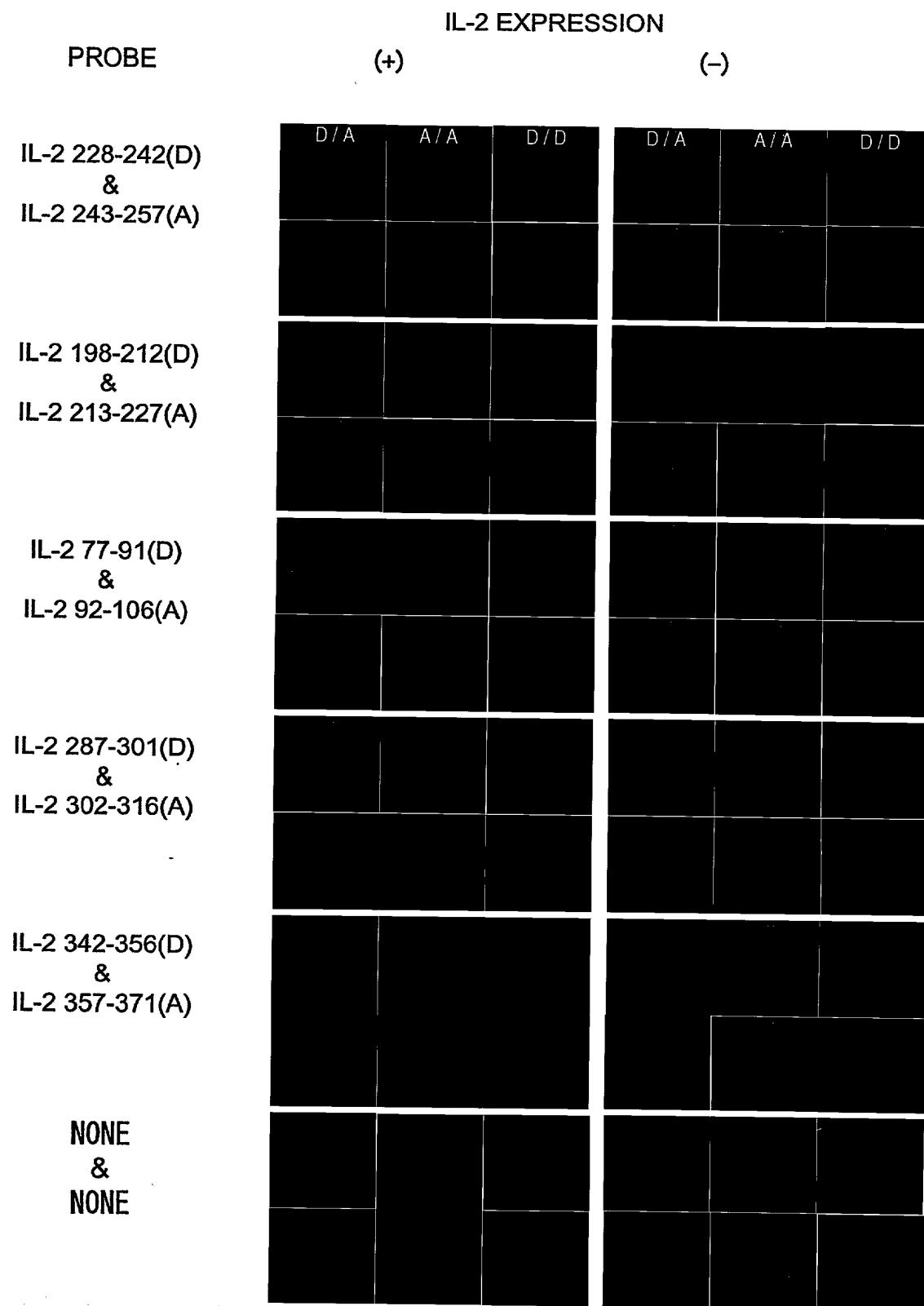
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## Fig.23



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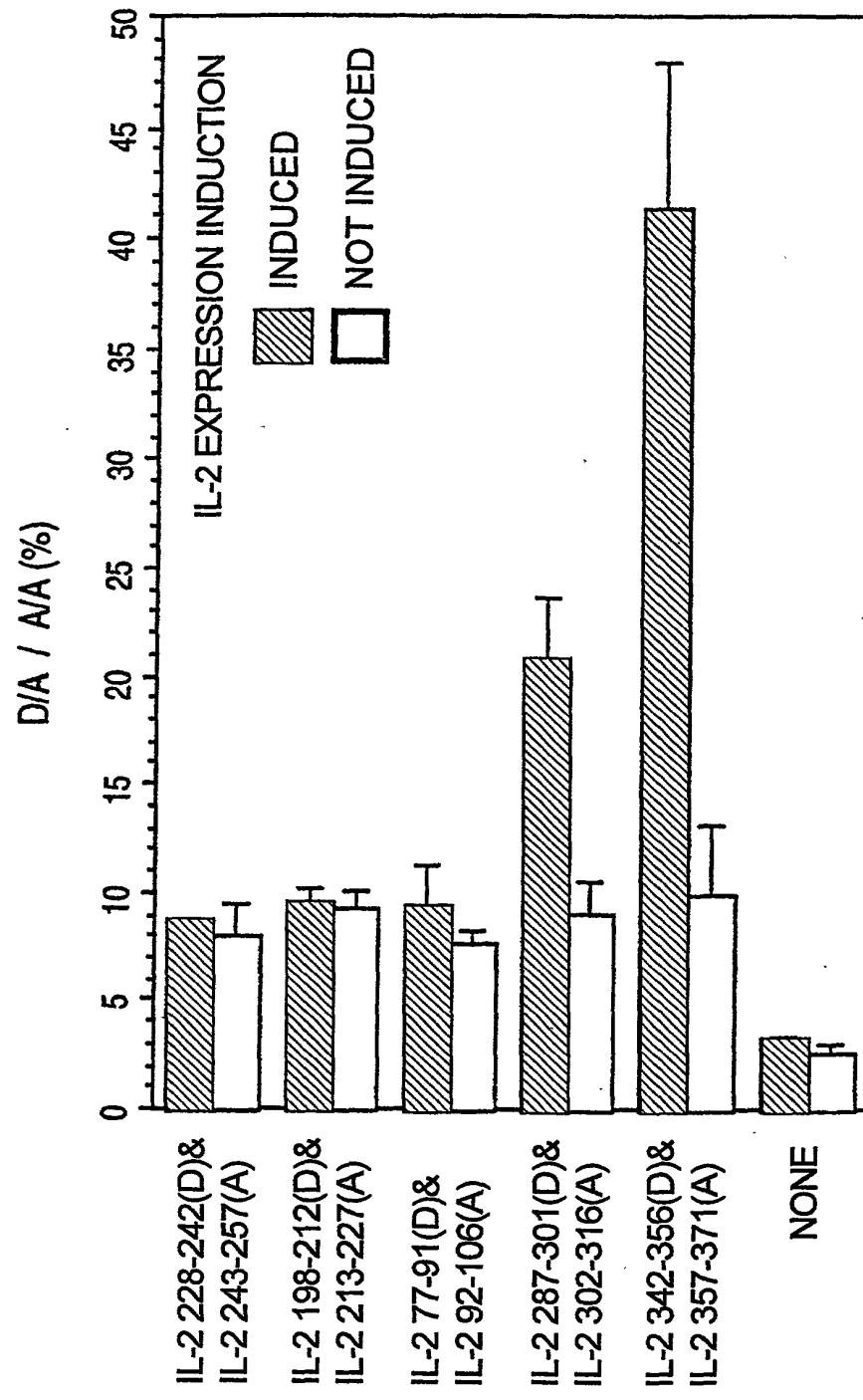
Inventors: ISHIBASHI et al.

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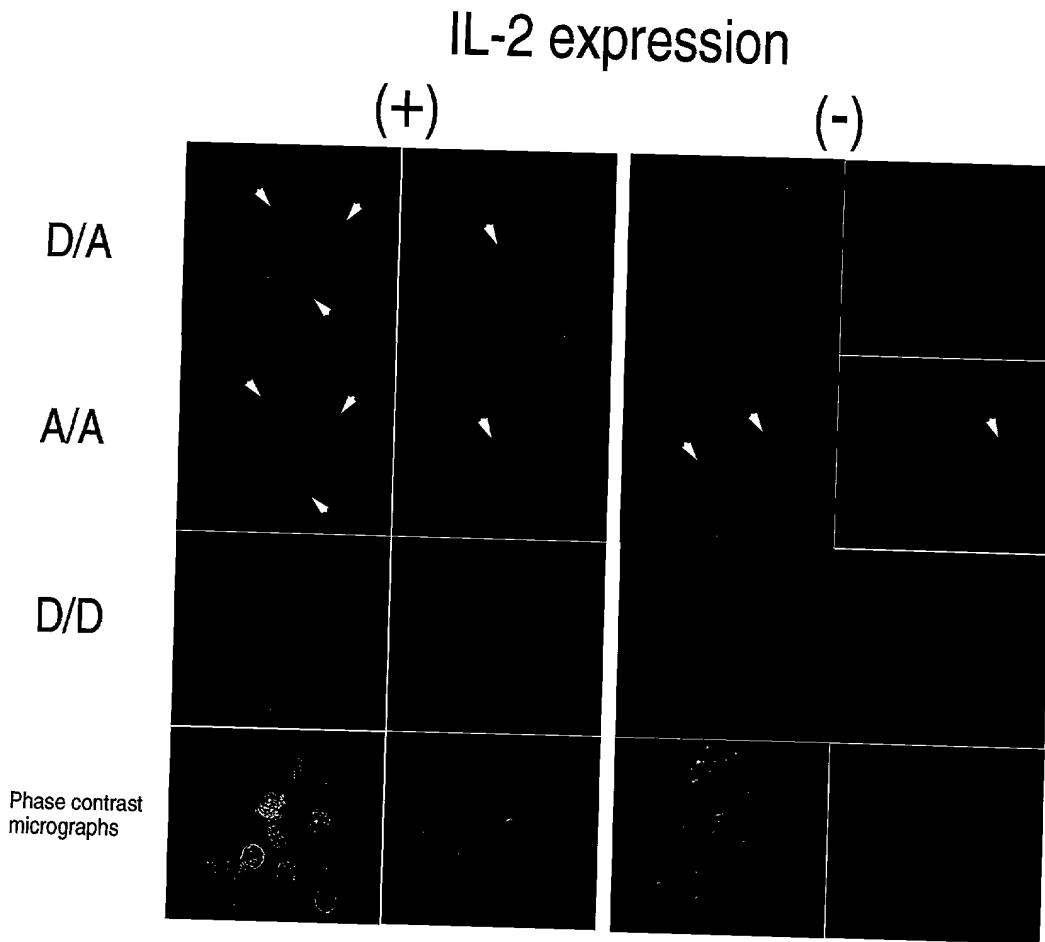
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**Fig. 24**



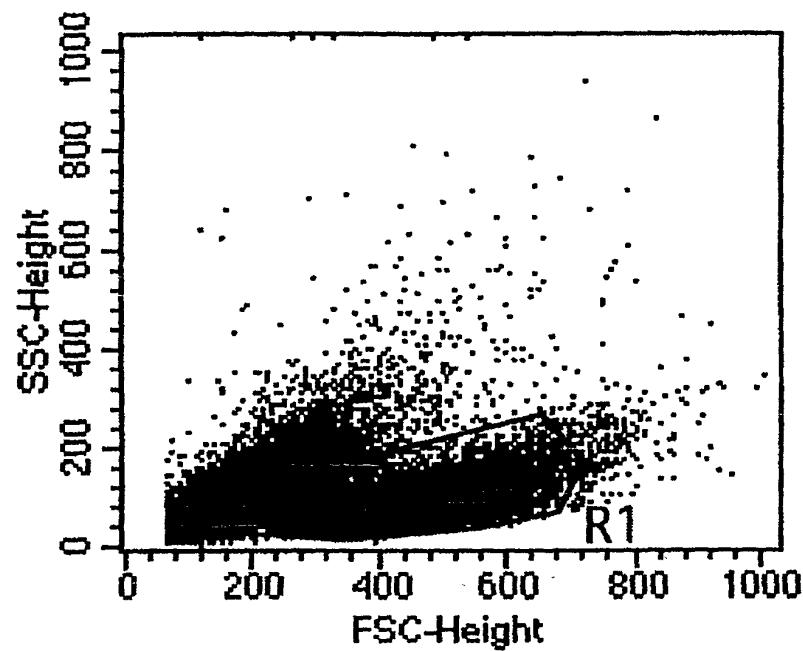
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**Fig. 25**

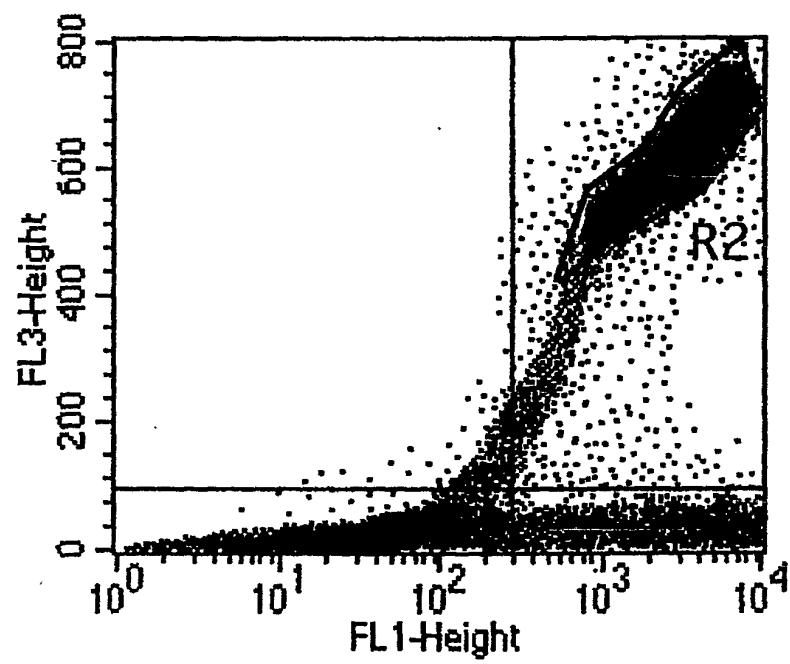


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**Fig.26**

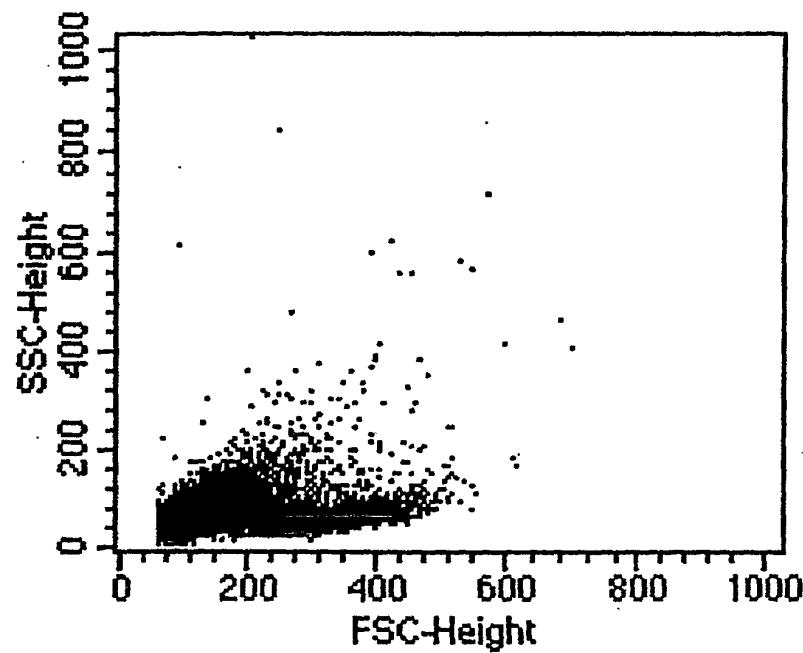


**Fig.27**

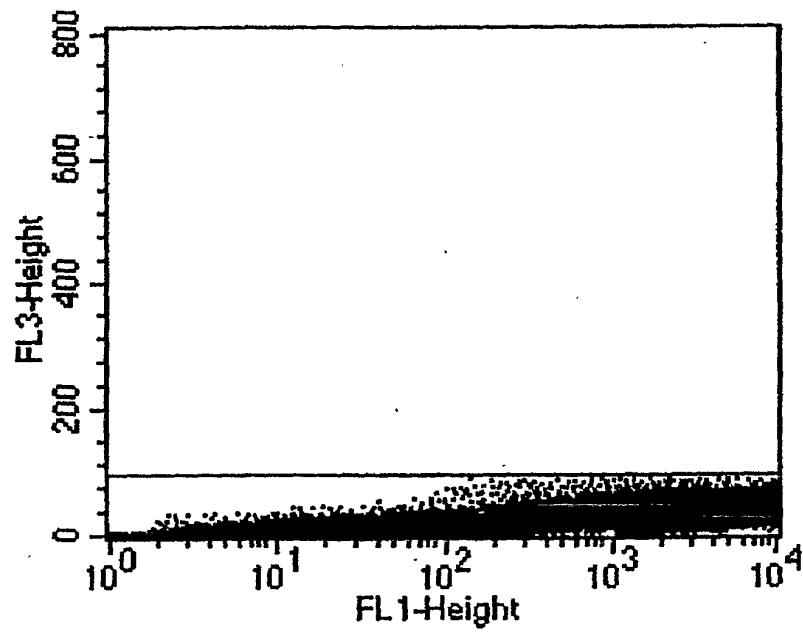


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**Fig.28**

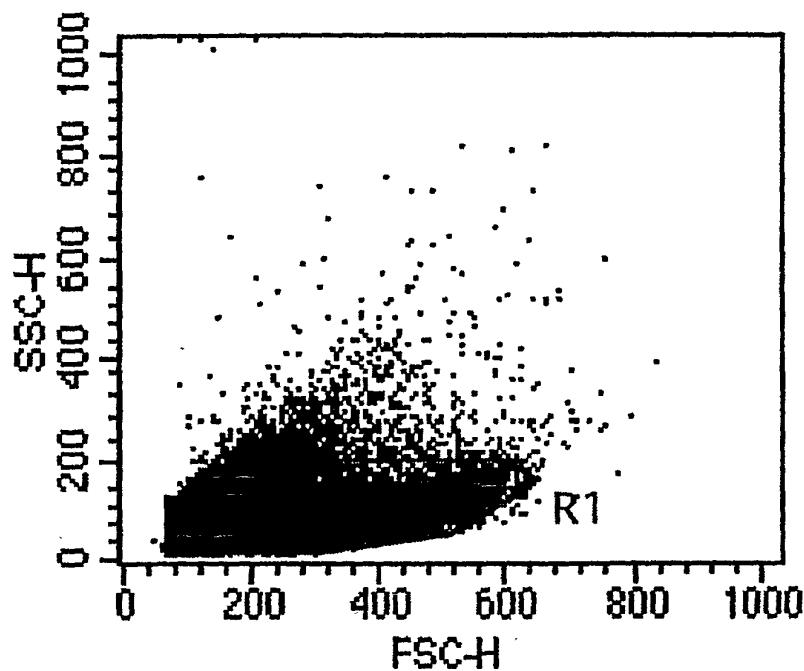


**Fig.29**

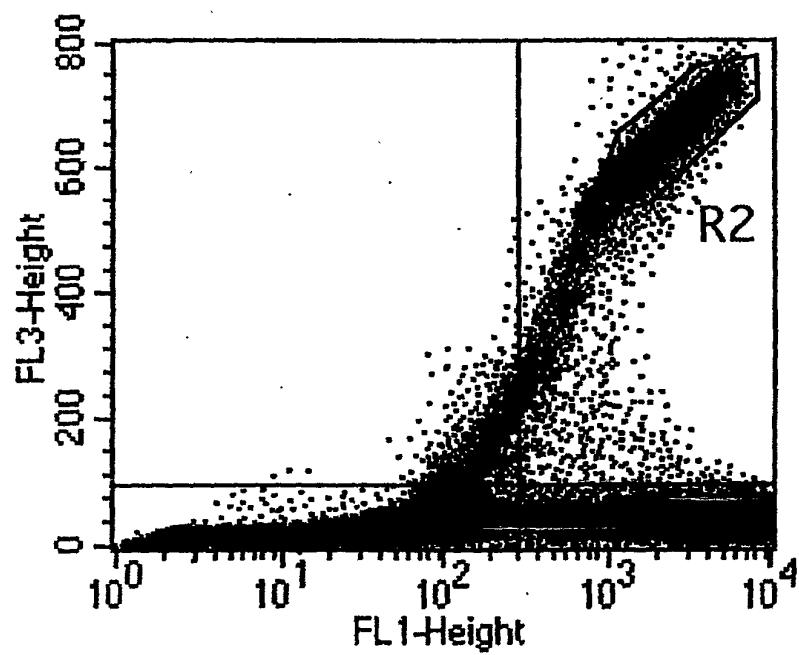


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**Fig.30**

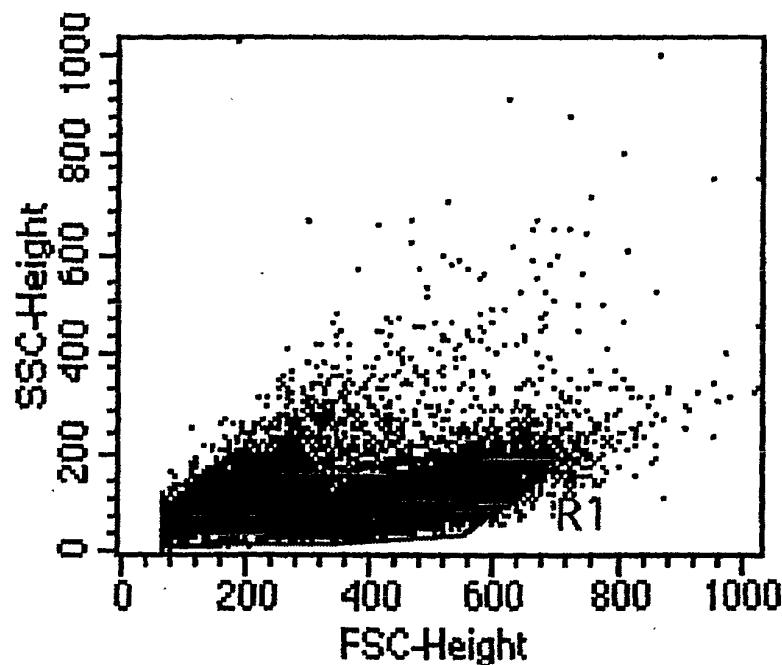


**Fig.31**

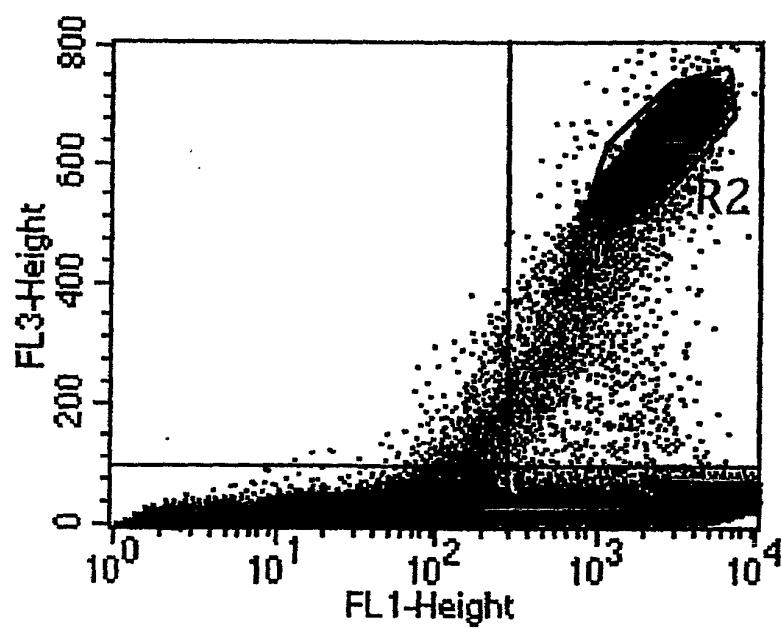


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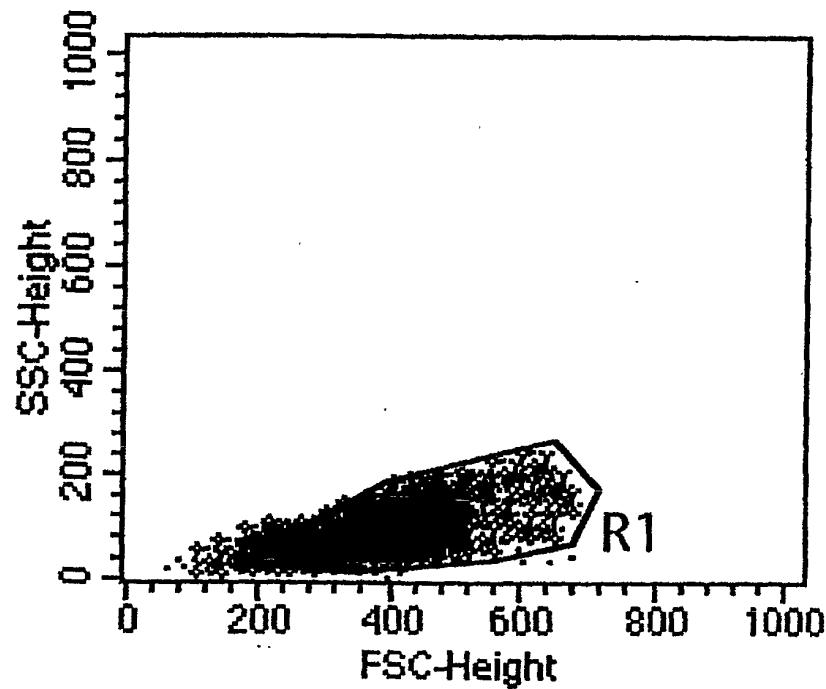
**Fig.32**



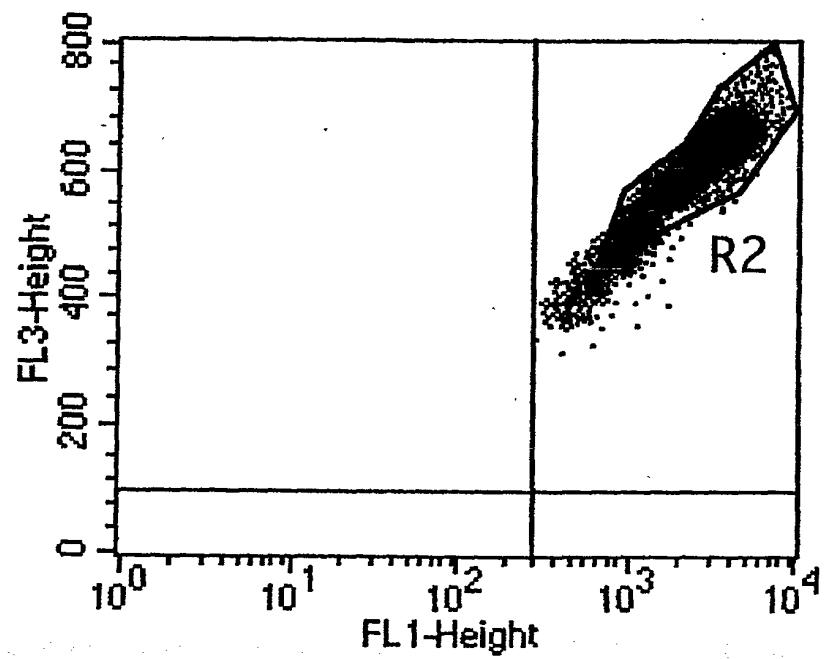
**Fig.33**



**Fig.34**

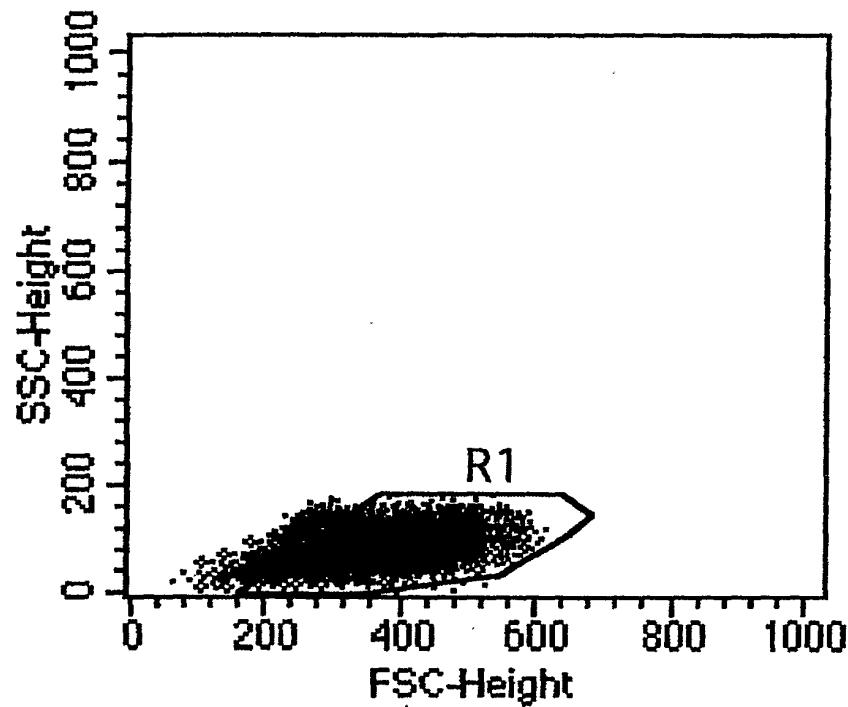


**Fig.35**

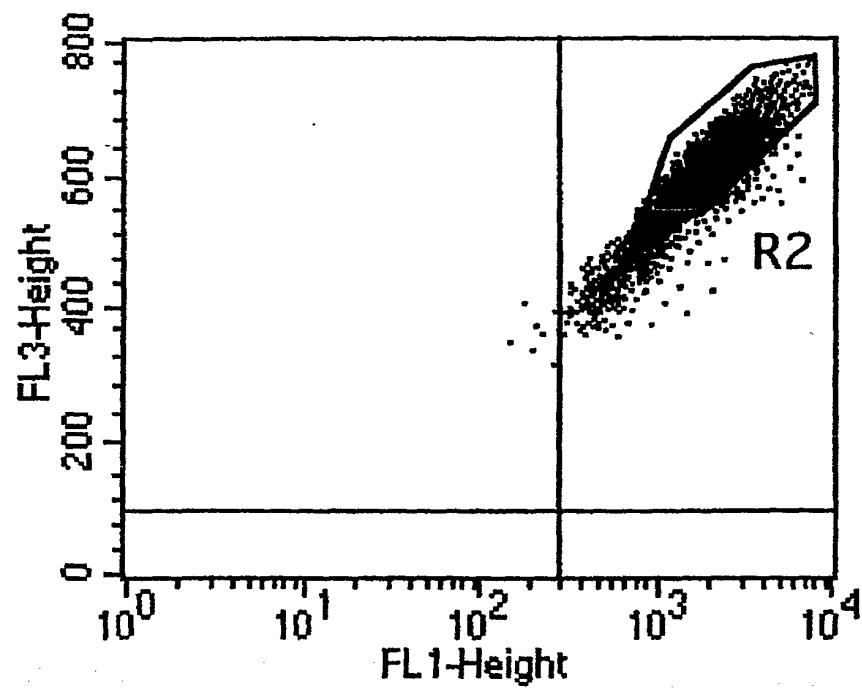


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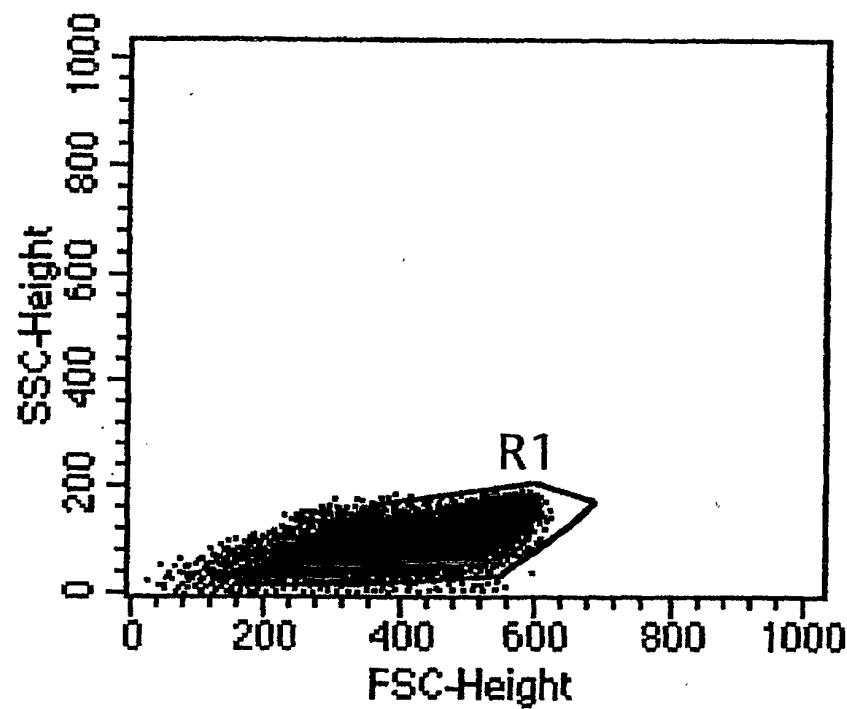
**Fig.36**



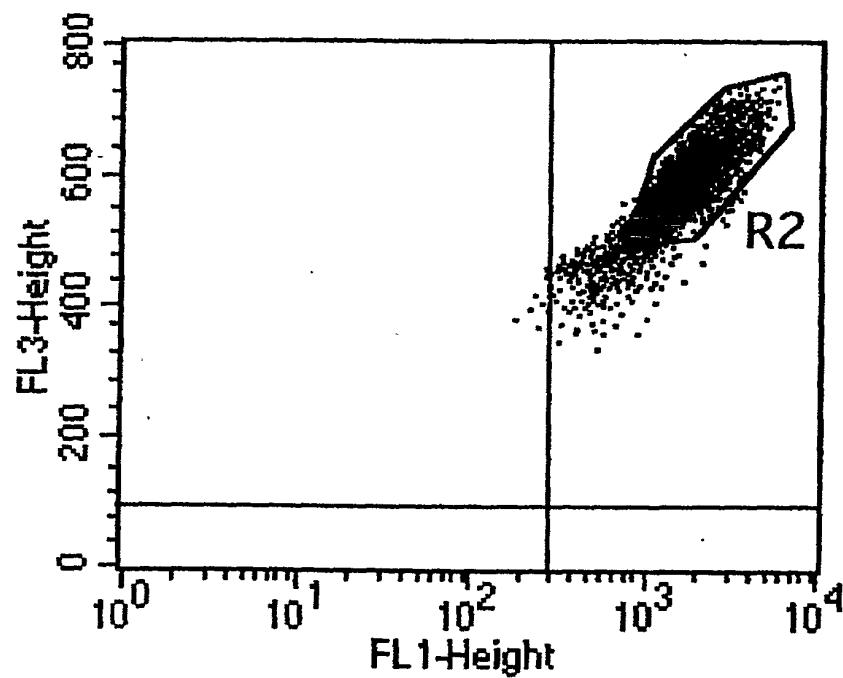
**Fig.37**



**Fig.38**



**Fig.39**



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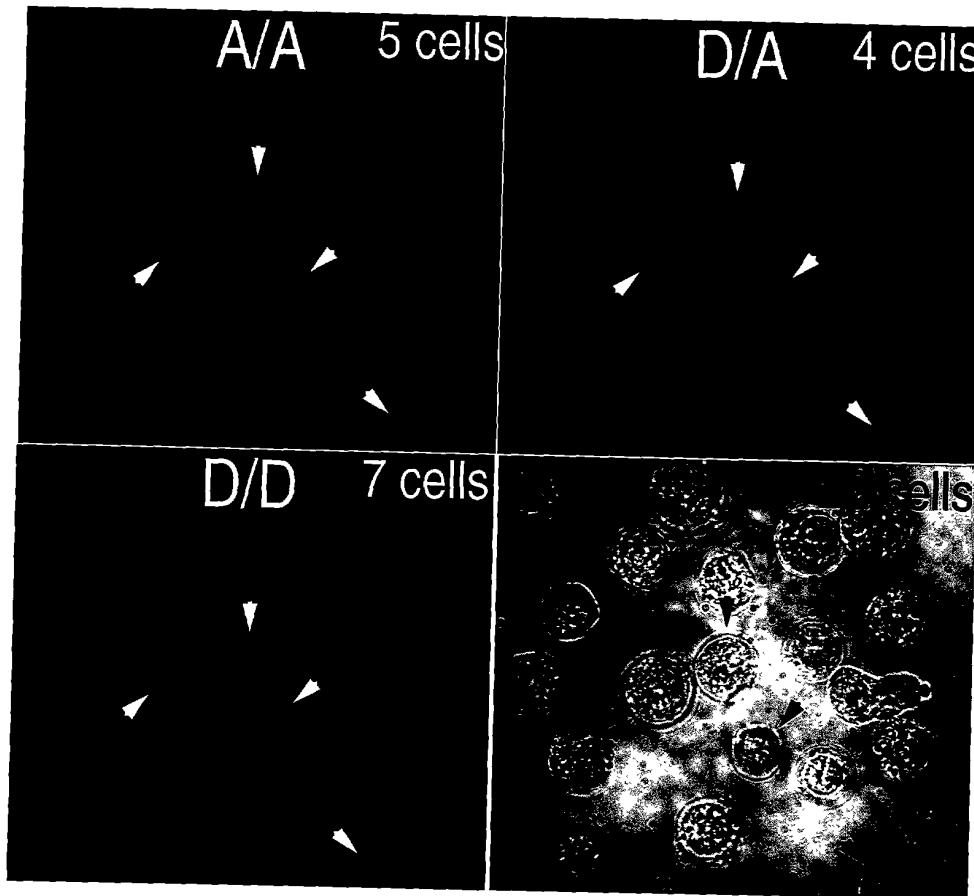
Inventors: ISHIBASHI et al.

Atty Docket No.: 400684/SOEI

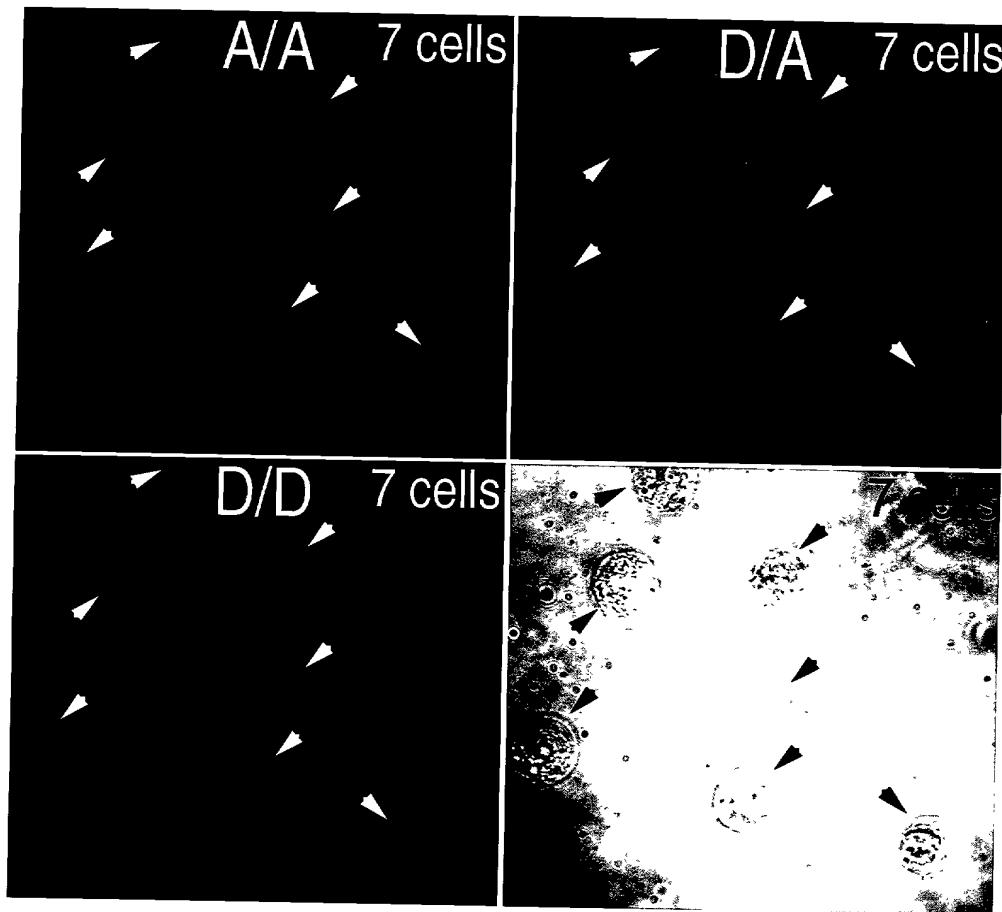
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**Fig.40**



**Fig.41**



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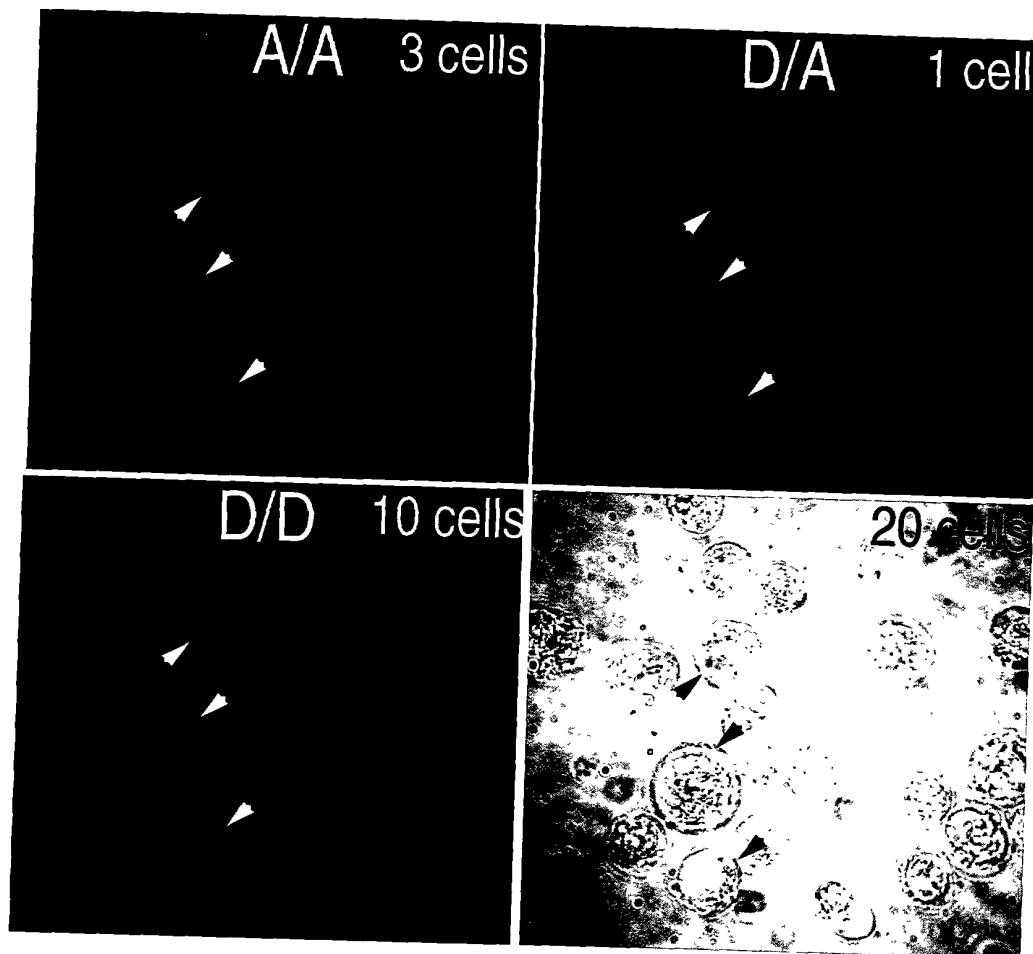
Inventors: ISHIBASHI et al.

Atty Docket No.: 400684/SOEI

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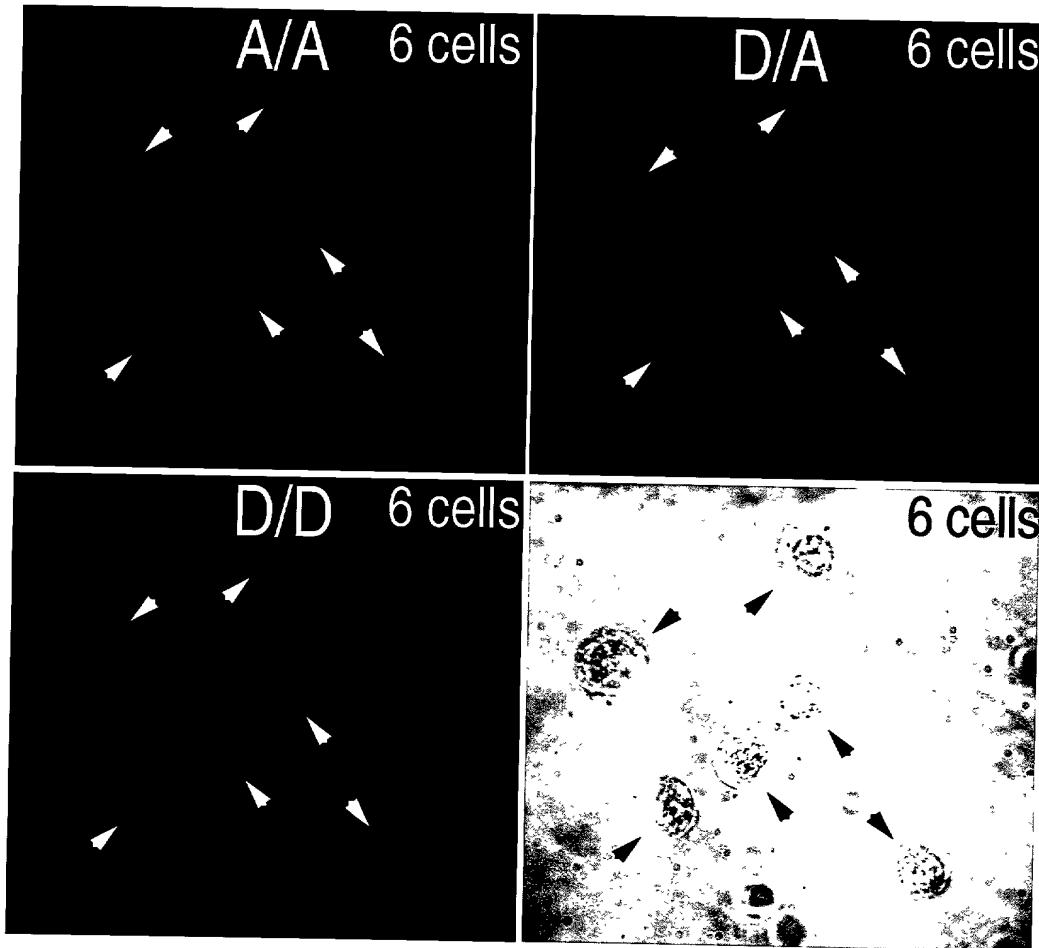
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**Fig.42**



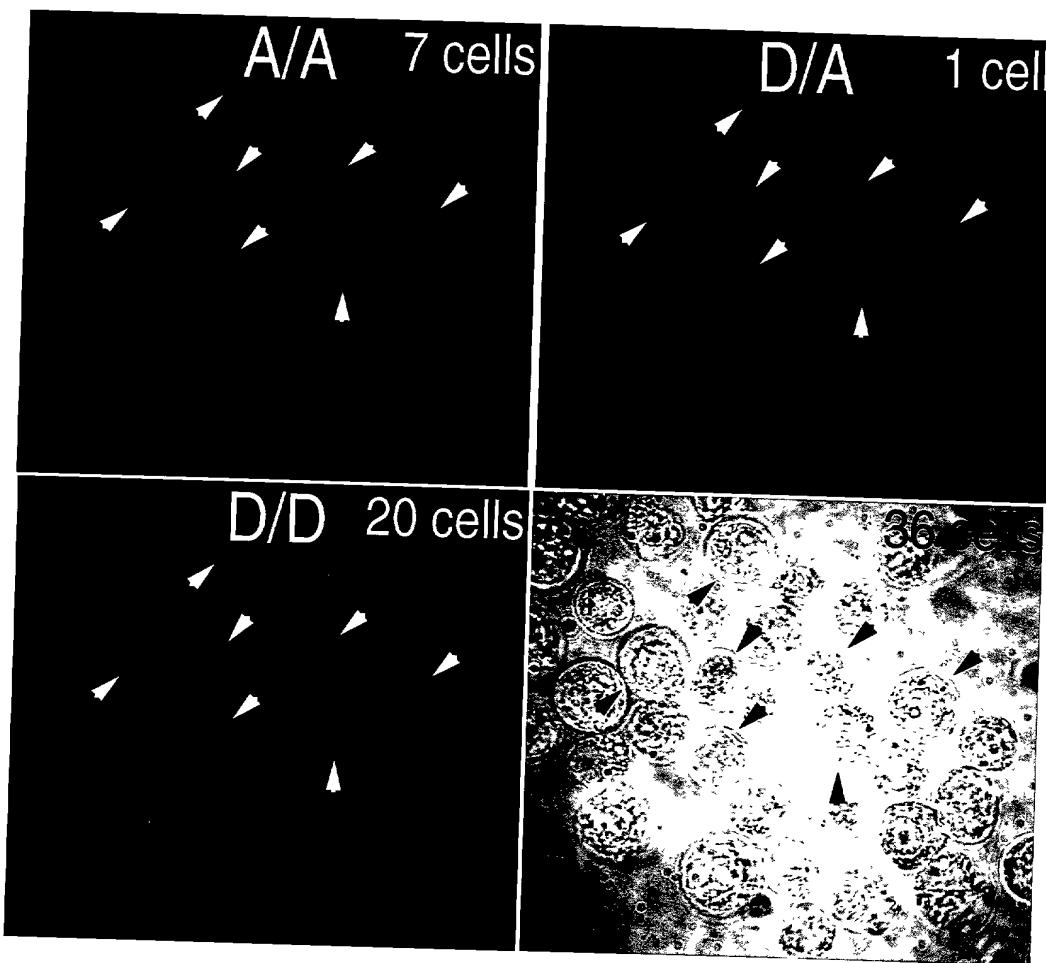
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**Fig.43**



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**Fig.44**



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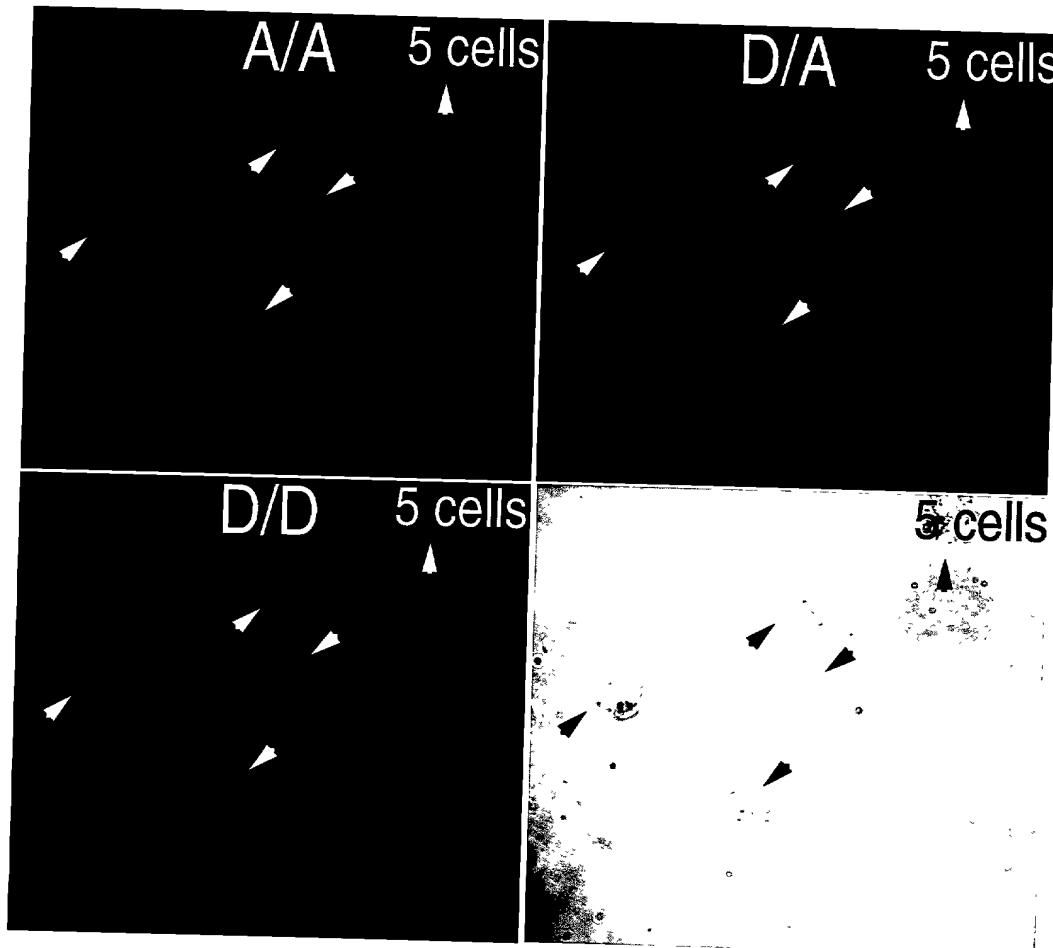
Inventors: ISHIBASHI et al.

Atty Docket No.: 400684/SOEI

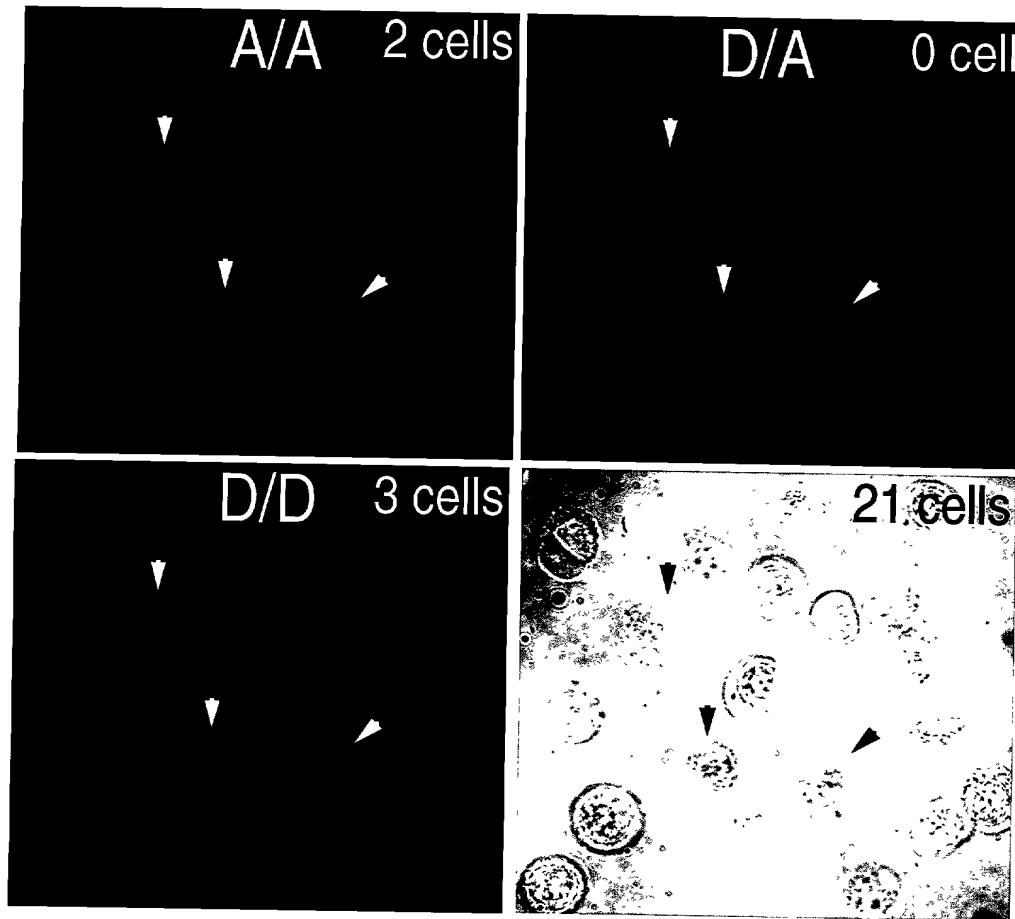
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**Fig.45**

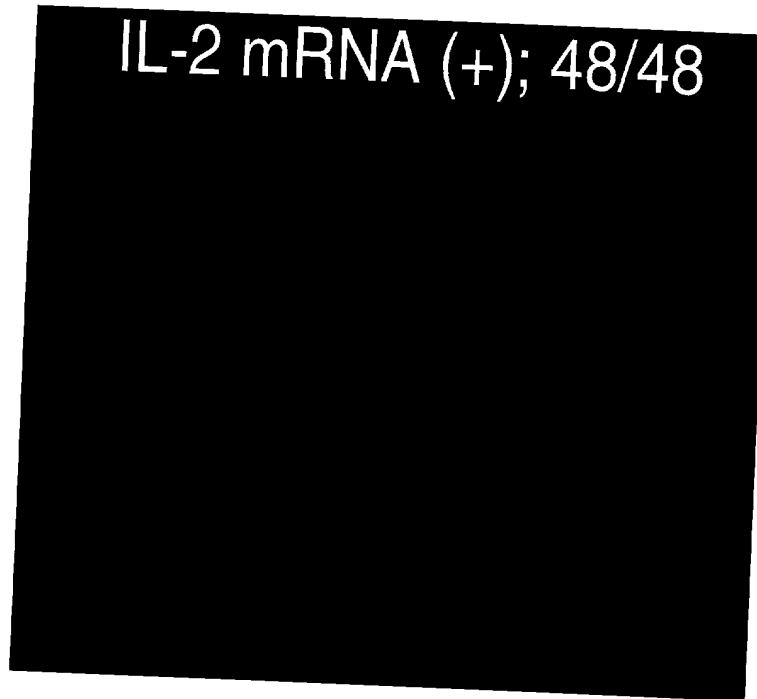


**Fig.46**



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**Fig.47**



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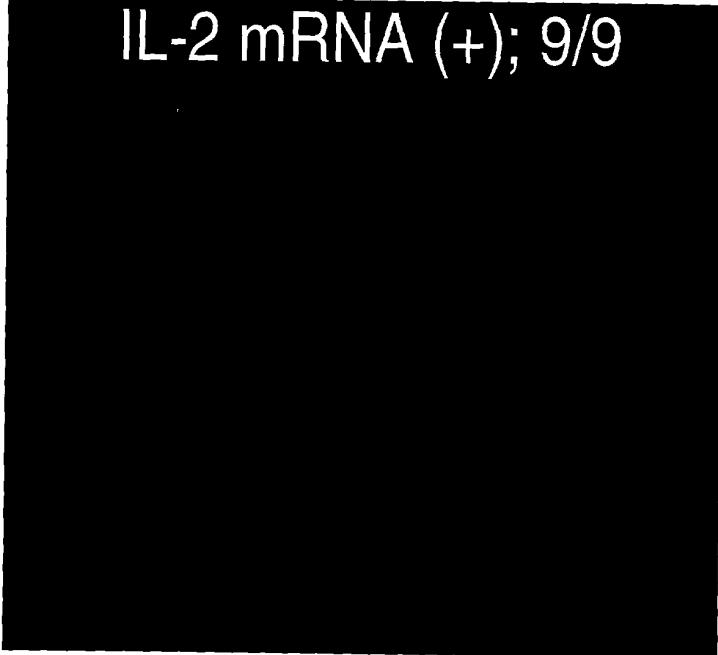
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**Fig.48**

IL-2 mRNA (+); 9/9



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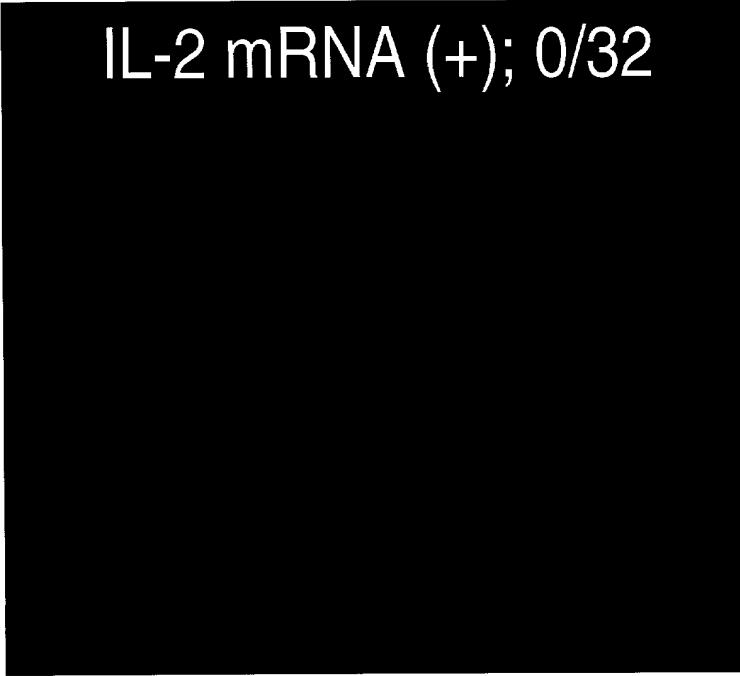
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**Fig.49**

IL-2 mRNA (+); 0/32



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**Fig.50**

IL-2 mRNA (+); 18/35



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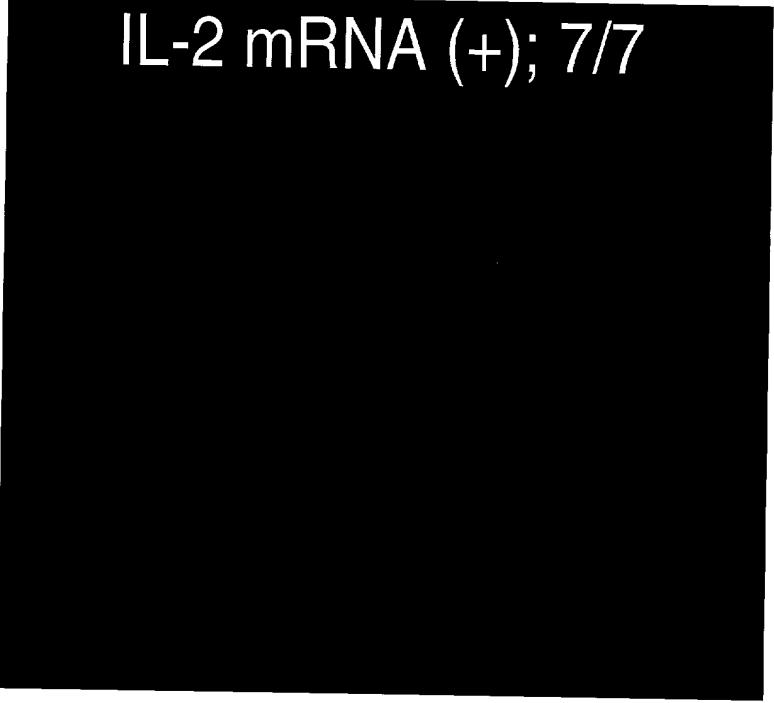
Atty Docket No.: 400684/SOEI

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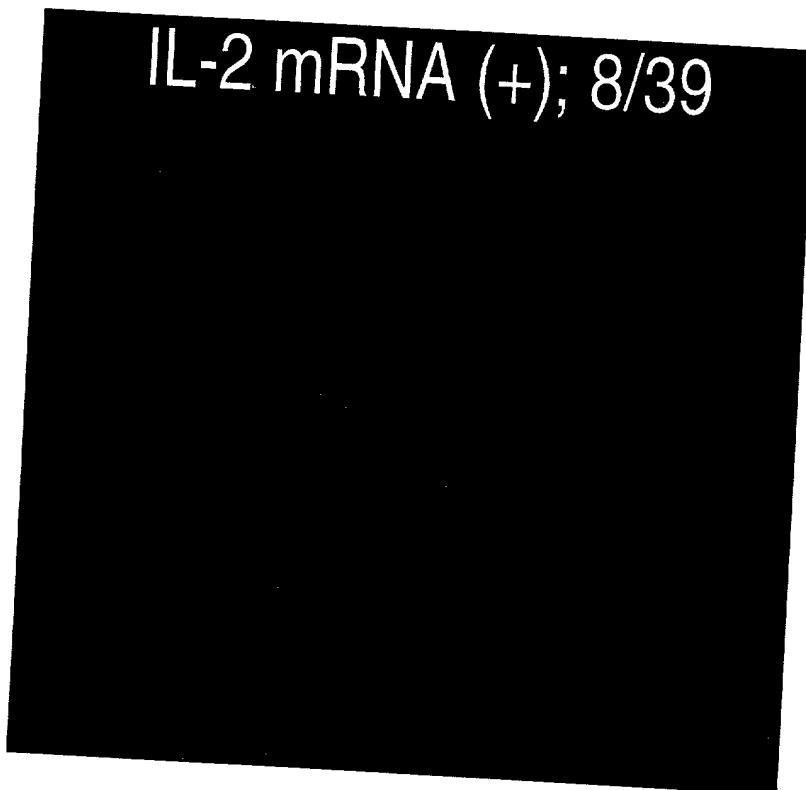
202-737-6770

**Fig.51**

IL-2 mRNA (+); 7/7

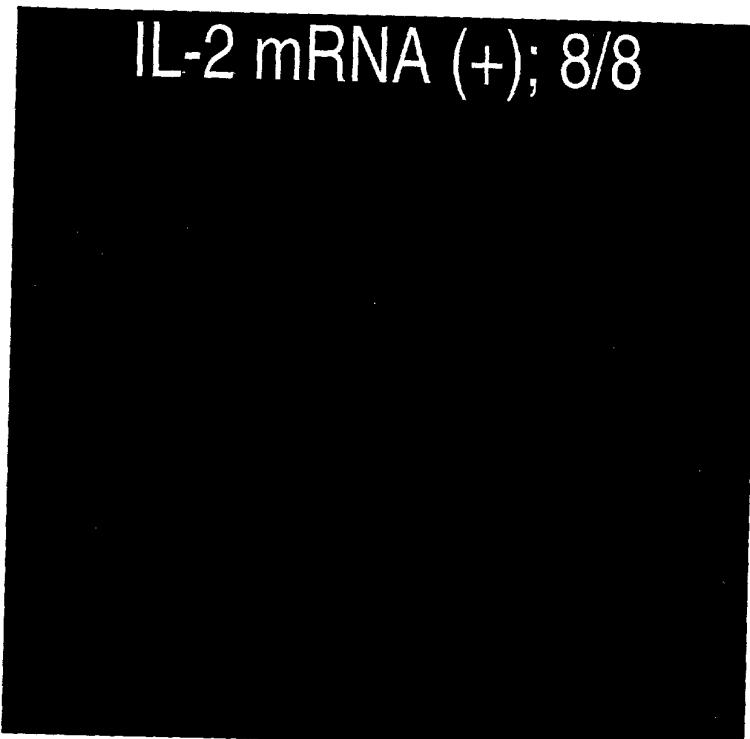


**Fig.52**



**Fig.53**

IL-2 mRNA (+); 8/8



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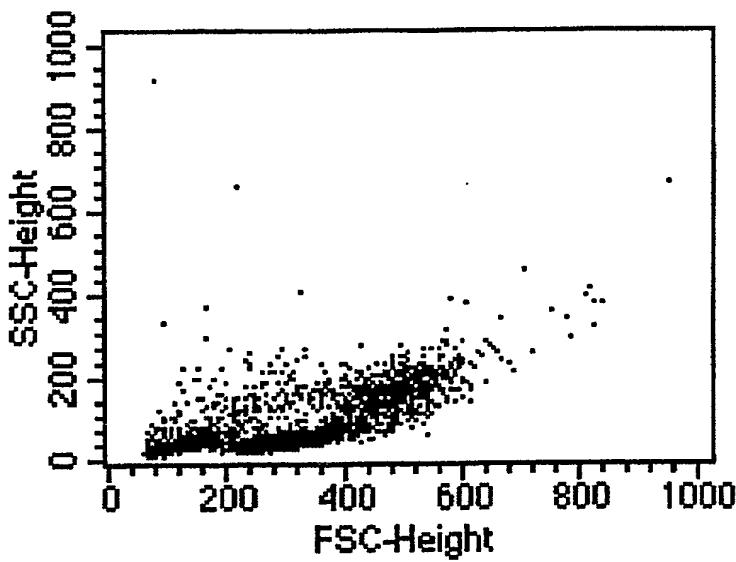
Inventors: ISHIBASHI et al.

Atty Docket No.: 400684/SOEI

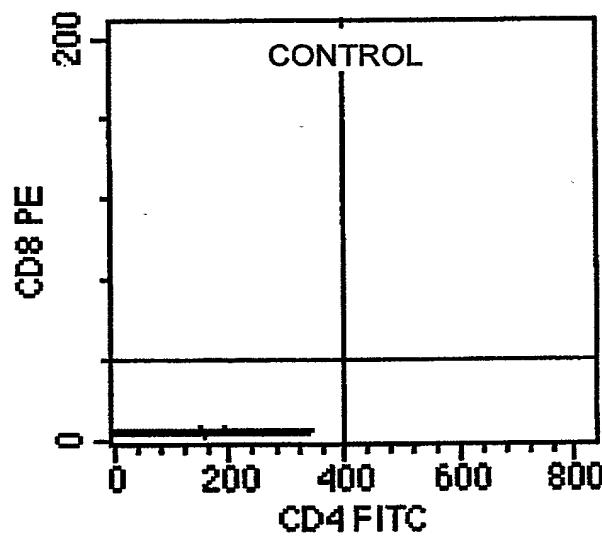
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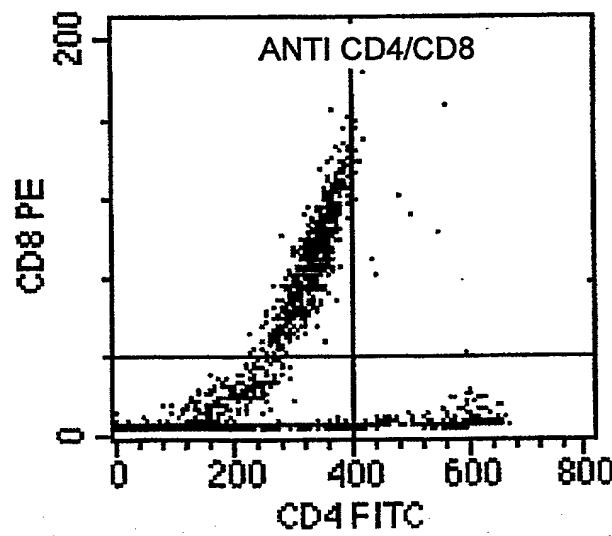
**Fig.54**



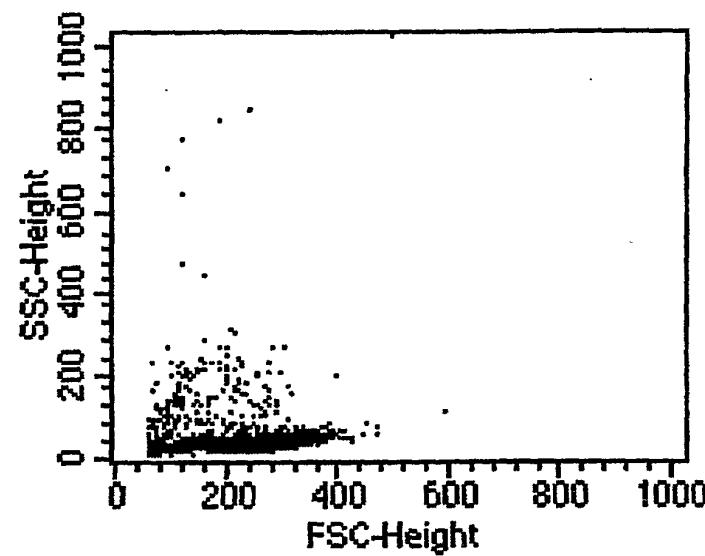
**Fig.55**



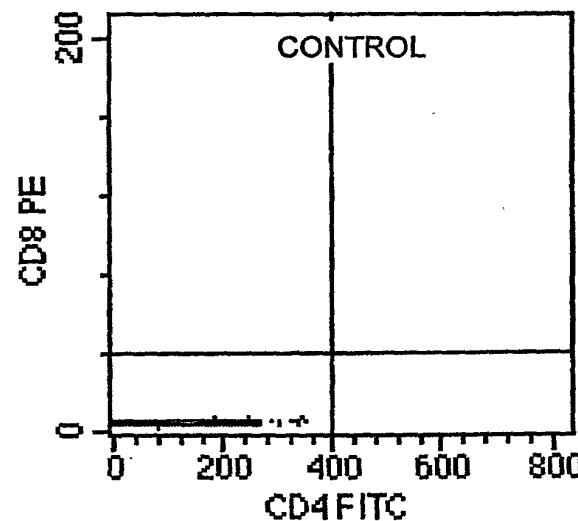
**Fig.56**



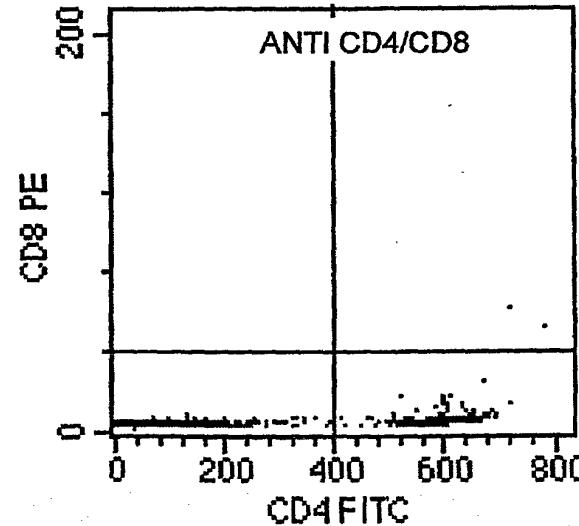
**Fig.57**



**Fig.58**

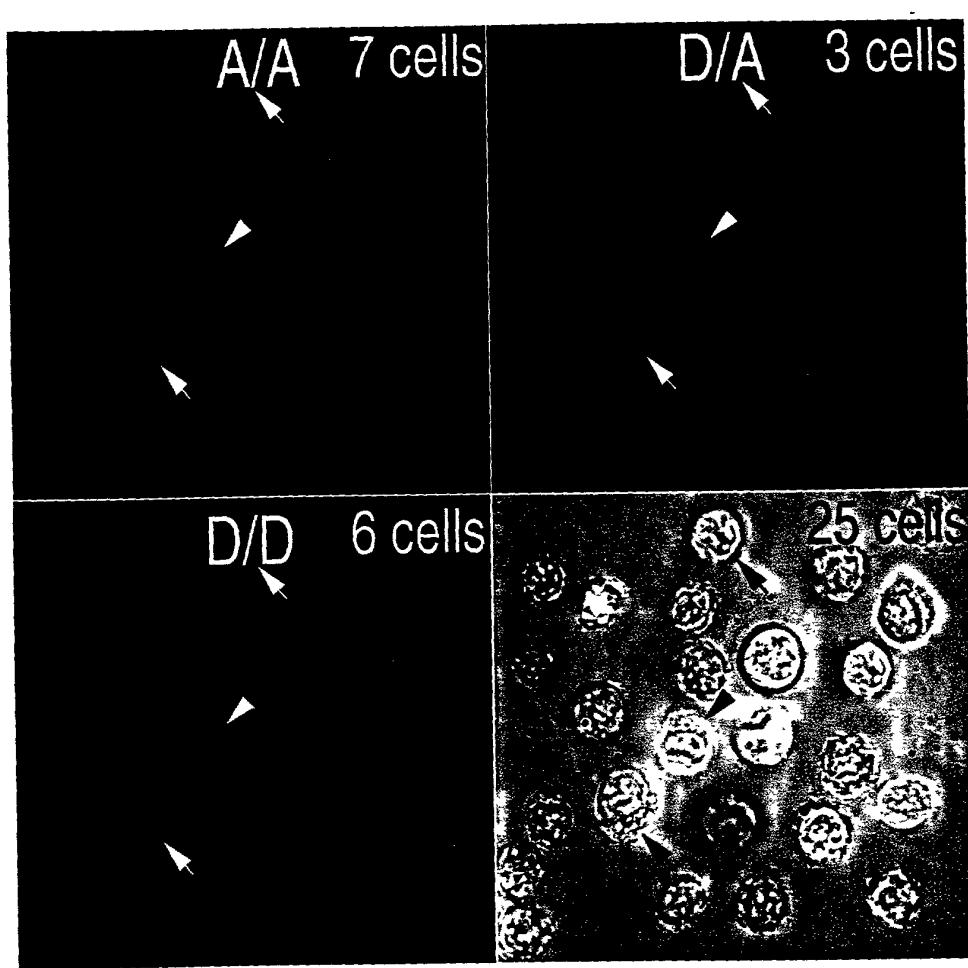


**Fig.59**



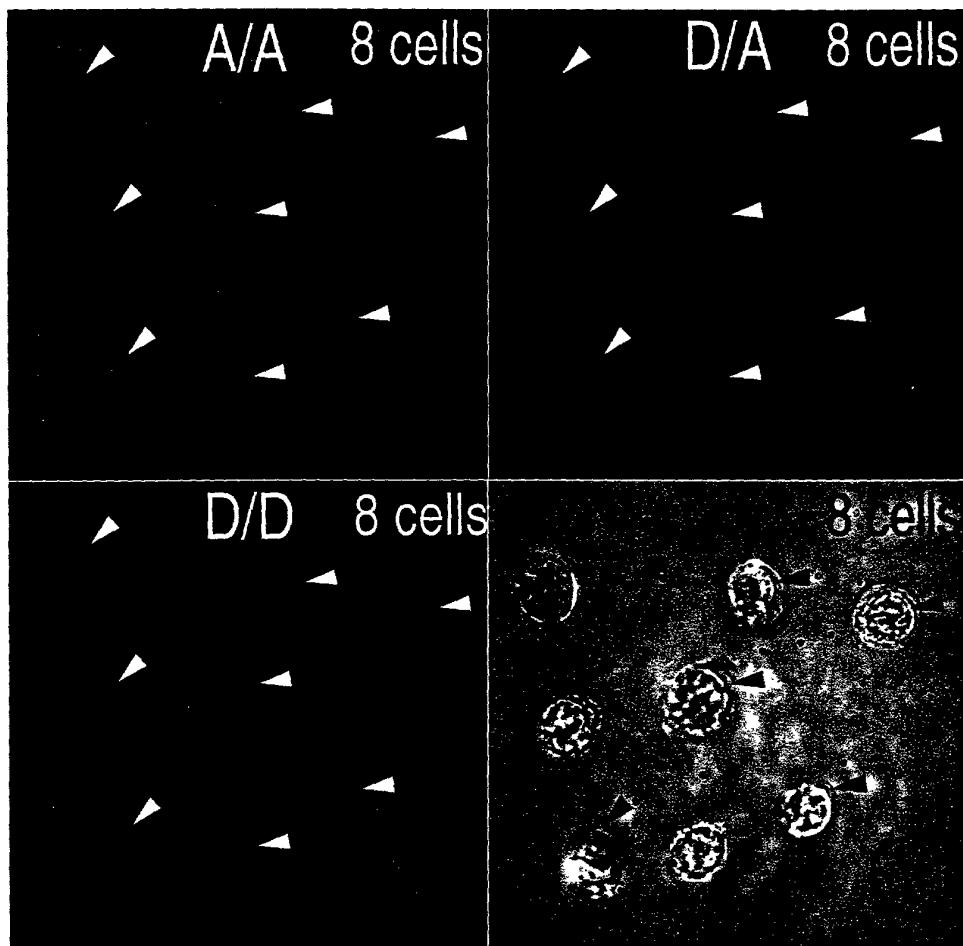
Title: Method For Selectively Separating Live Cells Expressing A Specific Gene  
Inventors: ISHIBASHI et al.  
Atty Docket No.: 400684/SOEI  
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202-737-6770

**Fig.60**

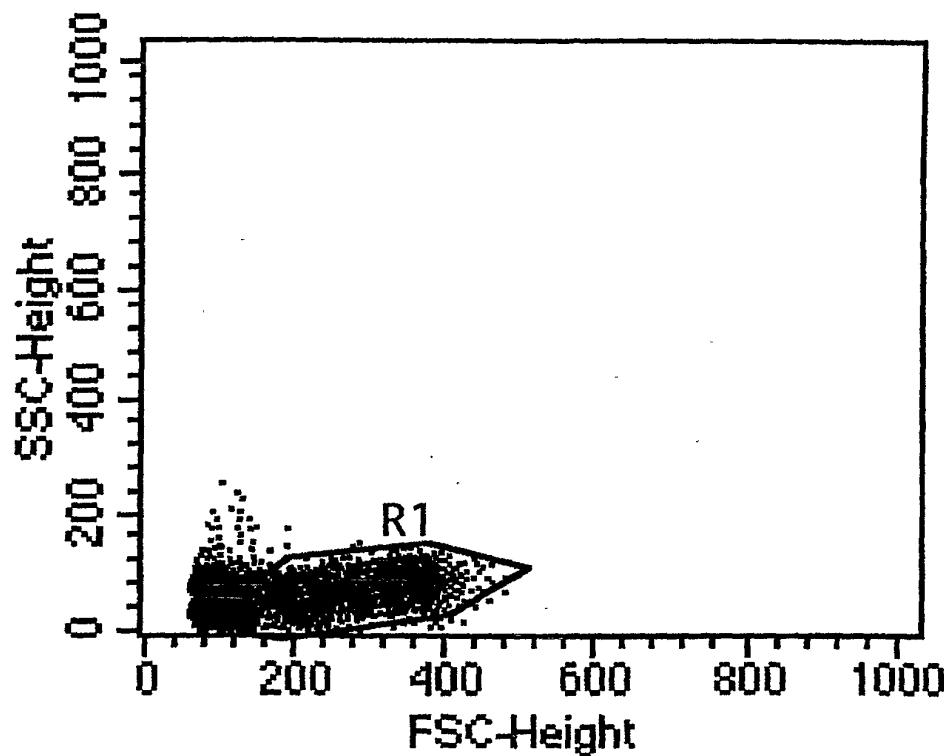


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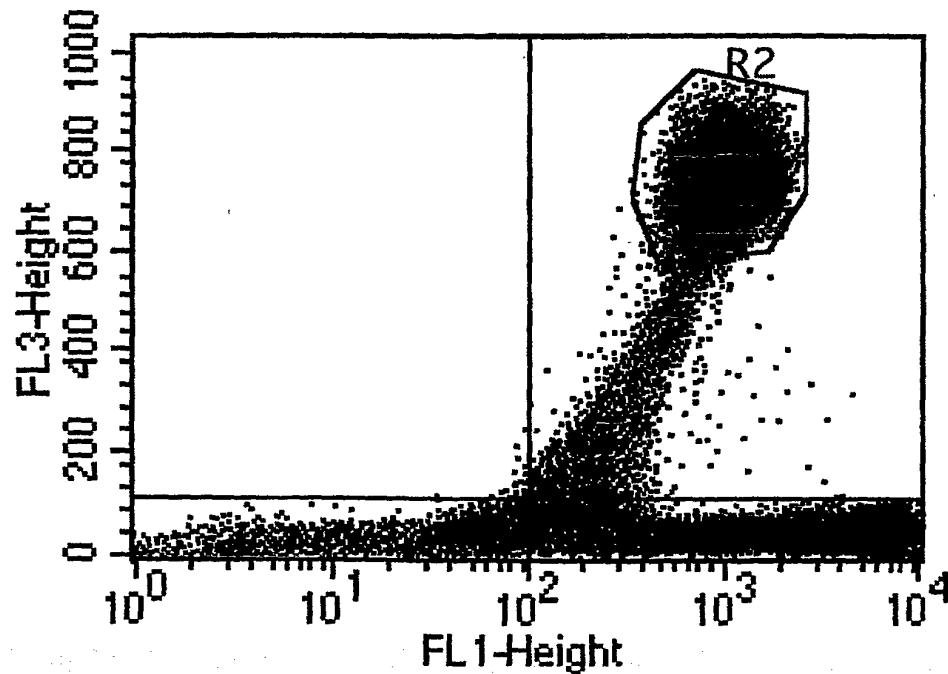
**Fig.61**



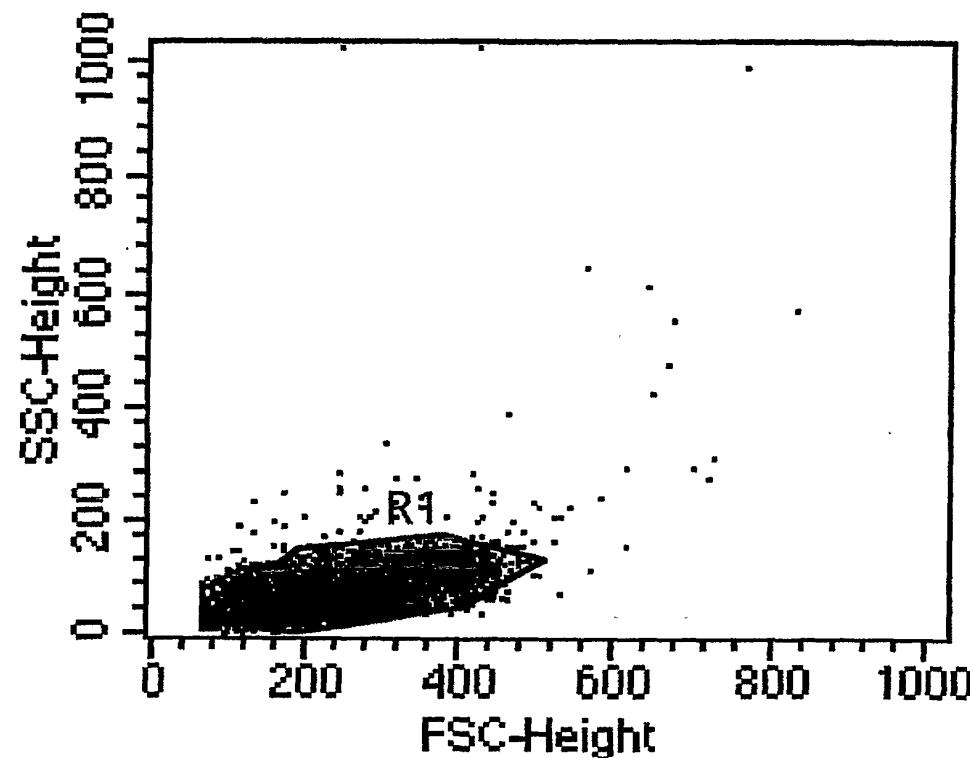
**Fig.62**



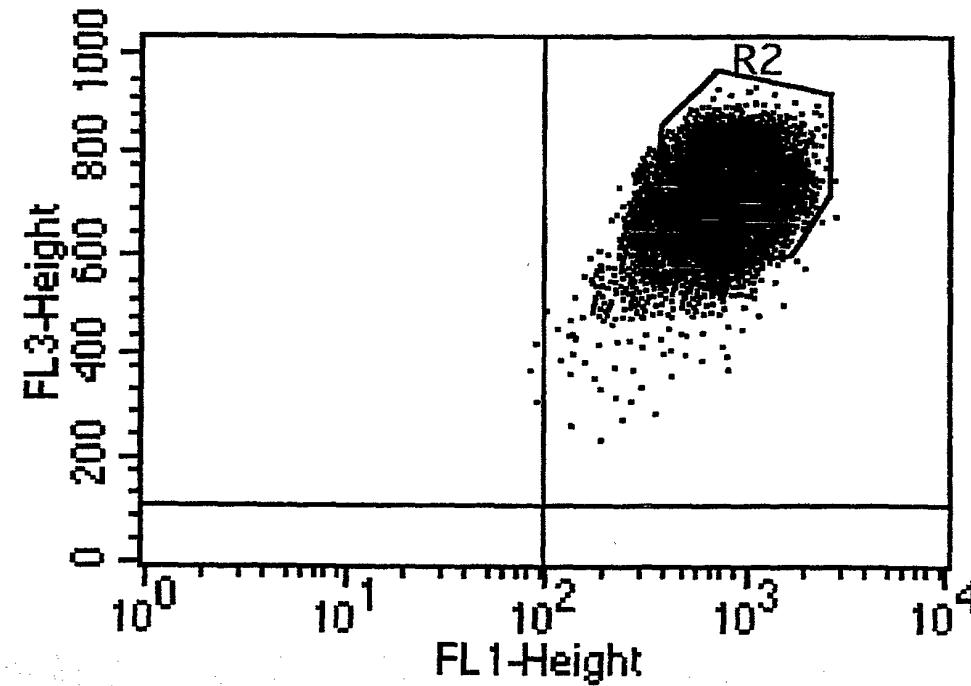
**Fig.63**



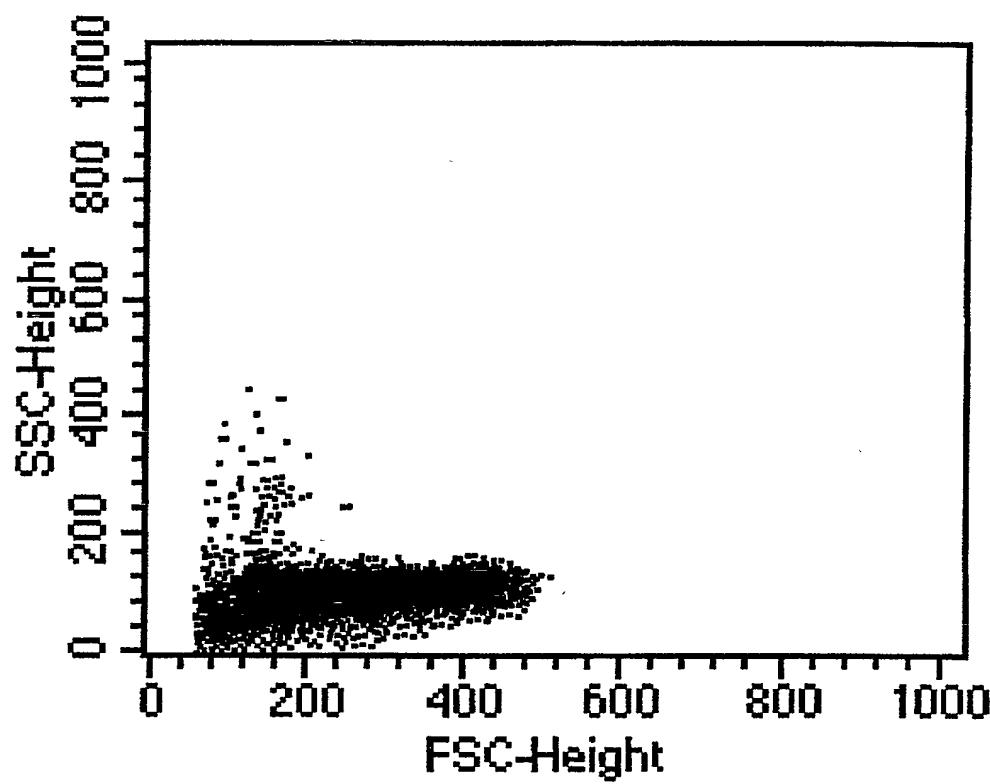
**Fig.64**



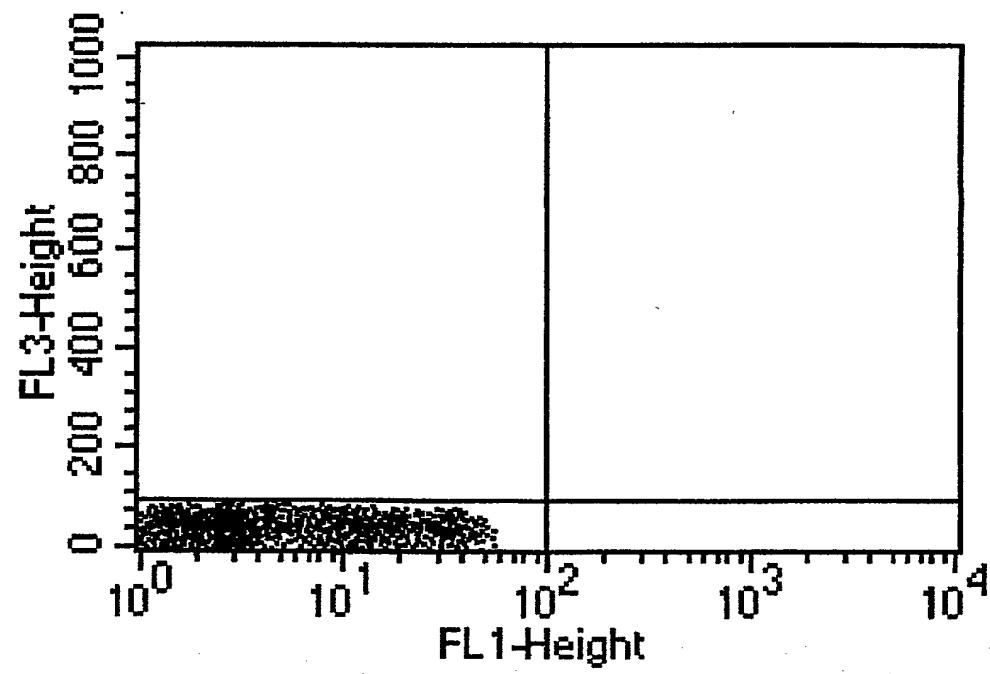
**Fig.65**



**Fig.66**

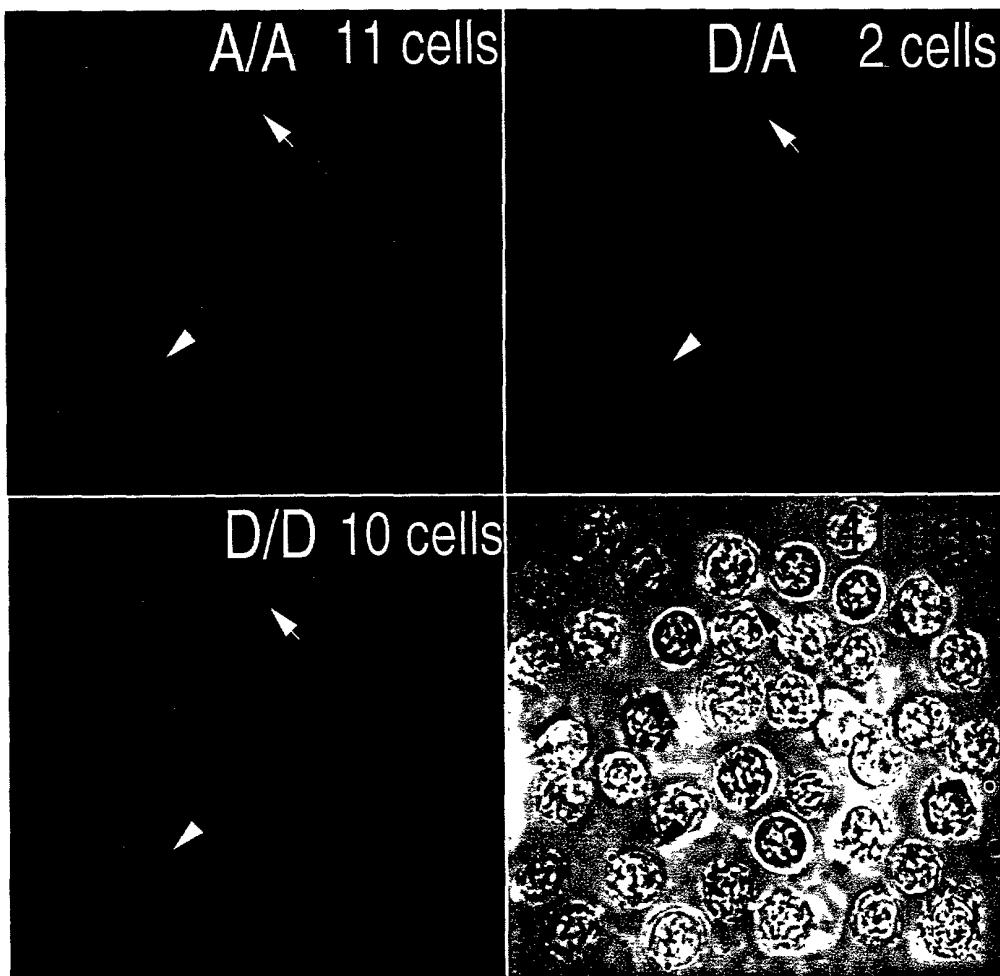


**Fig.67**

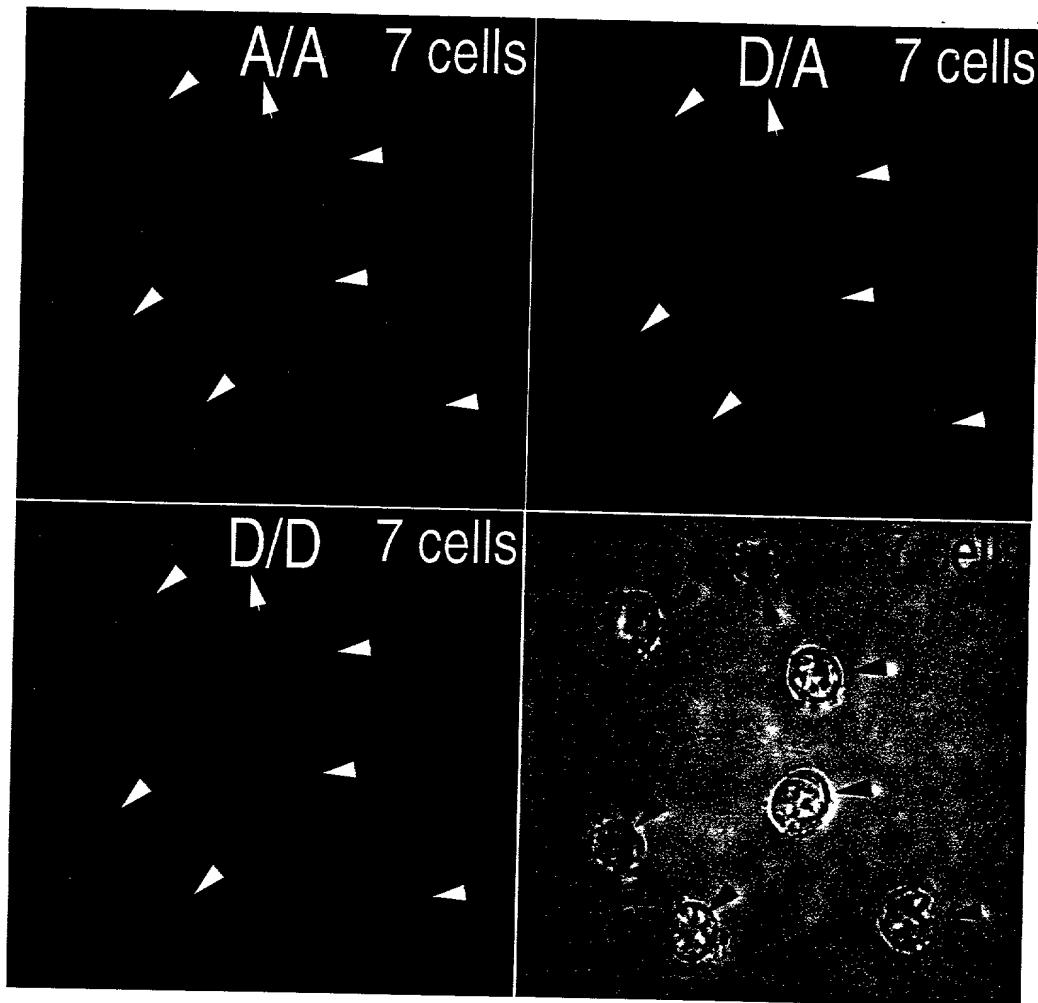


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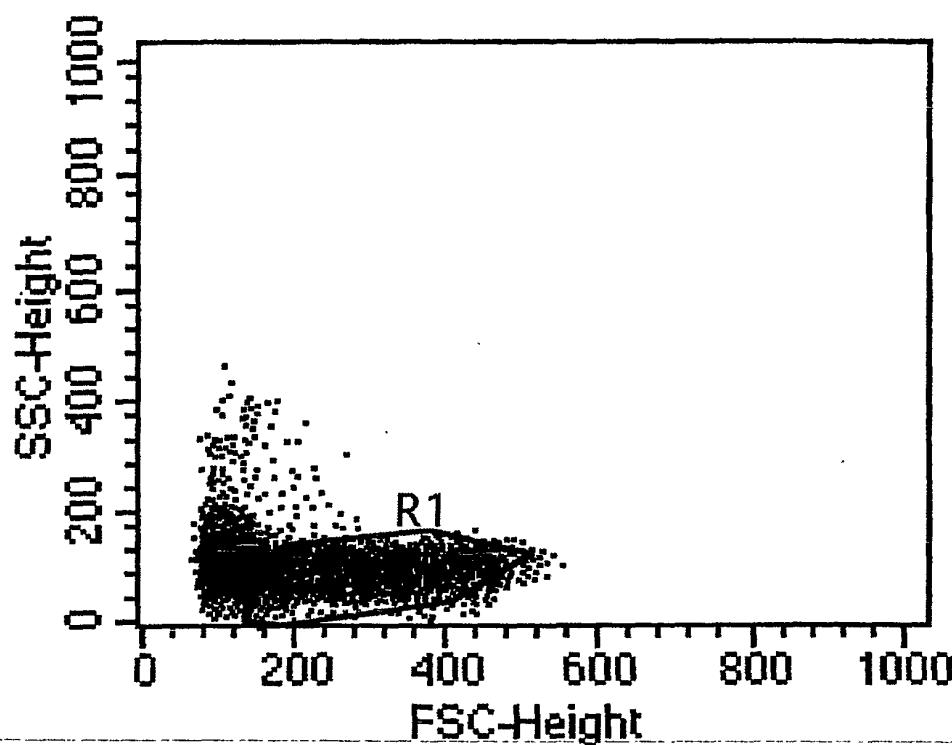
**Fig.68**



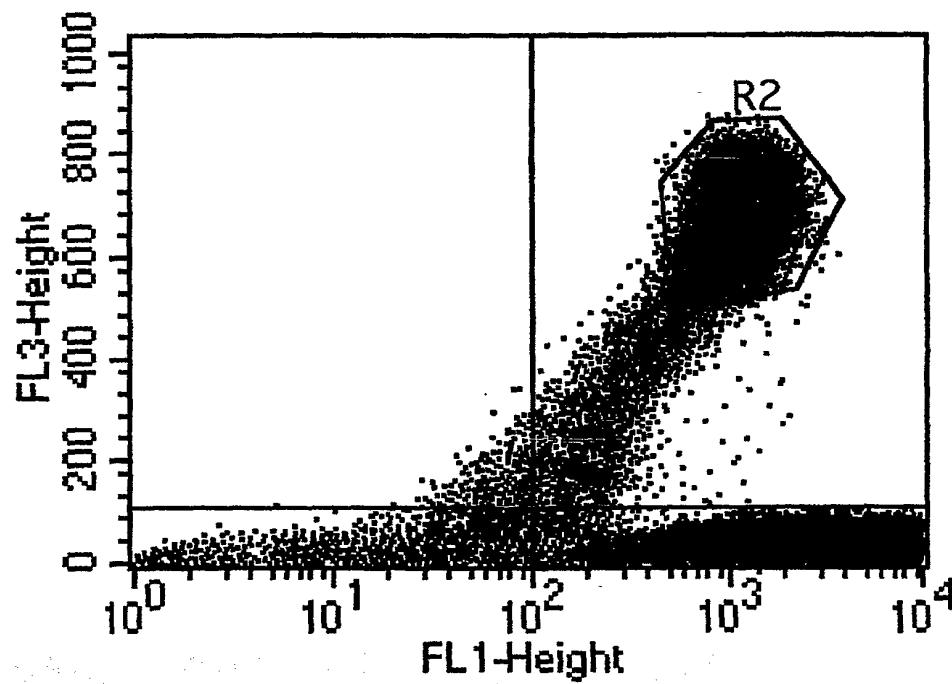
**Fig. 69**



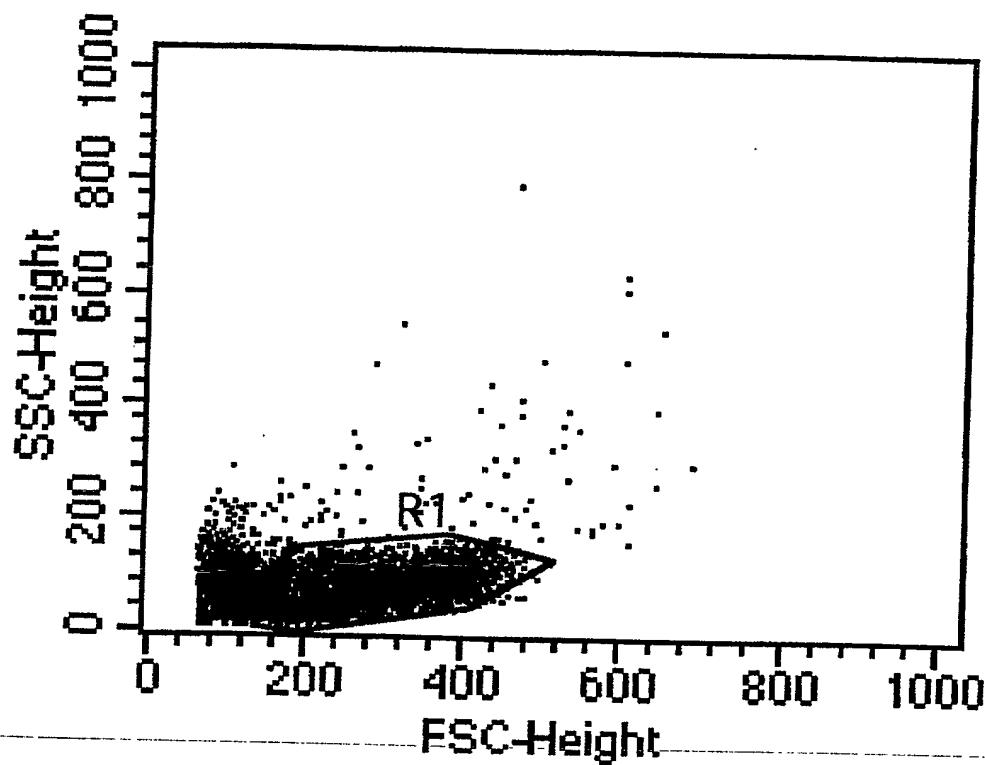
**Fig.70**



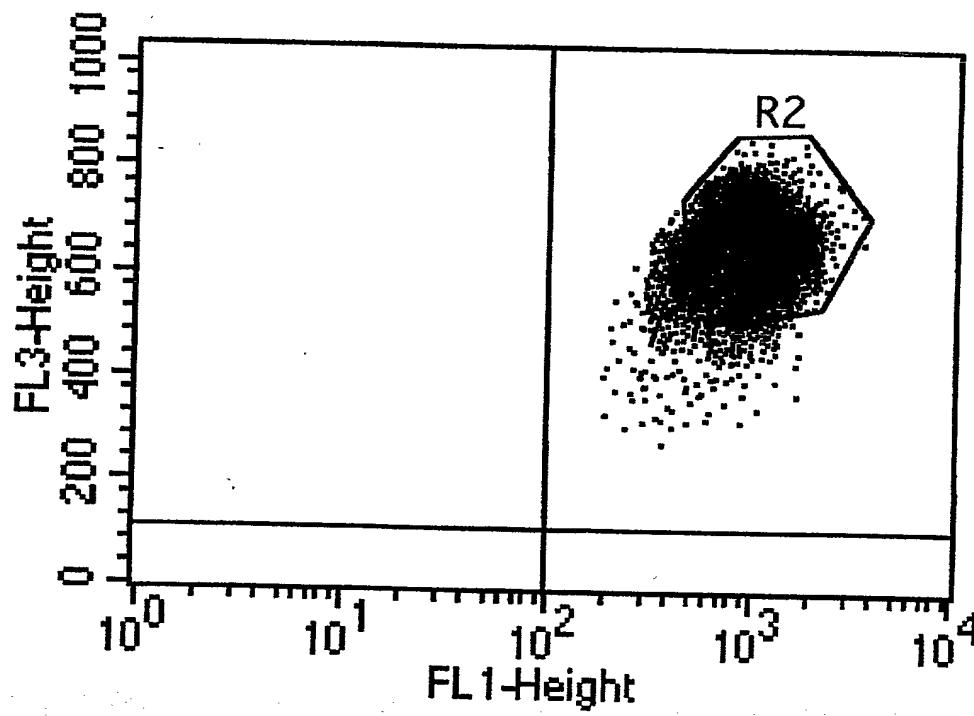
**Fig.71**



**Fig.72**

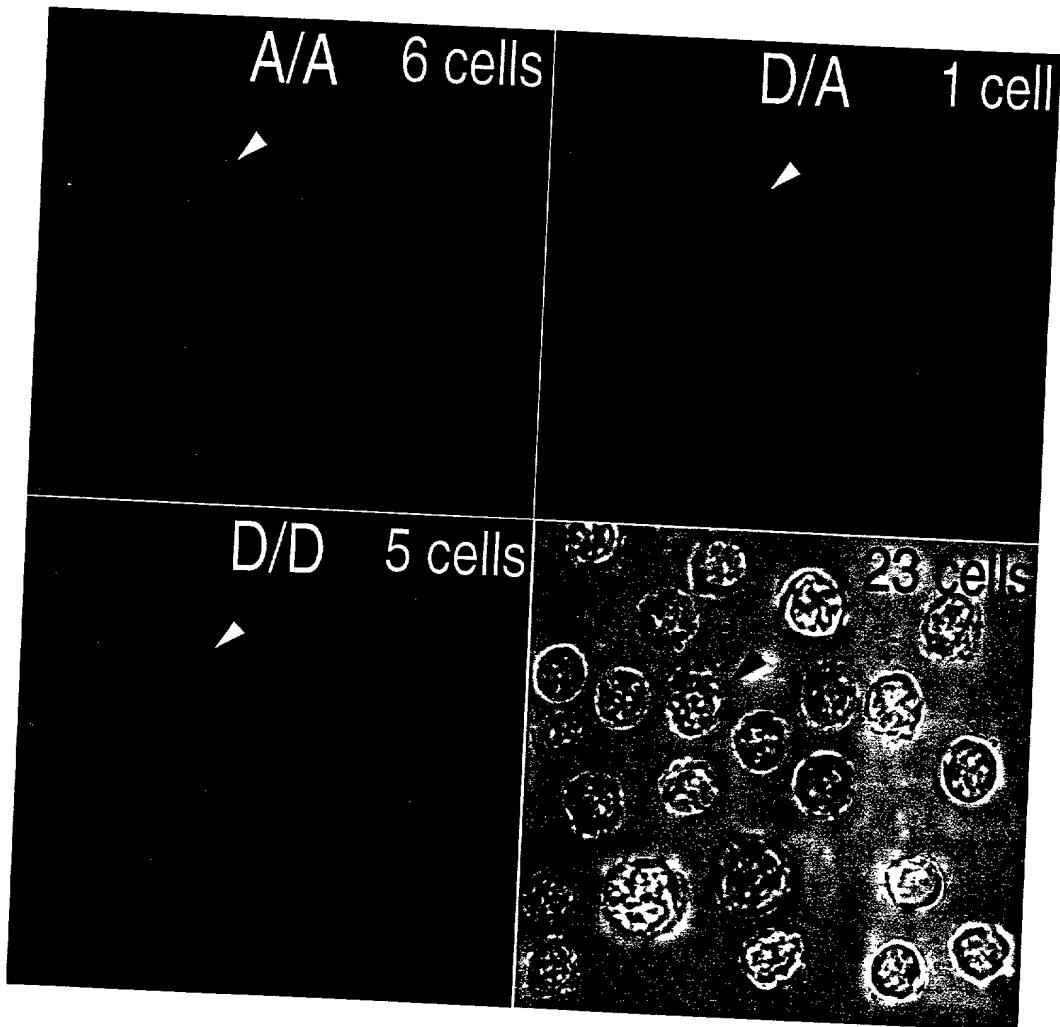


**Fig.73**

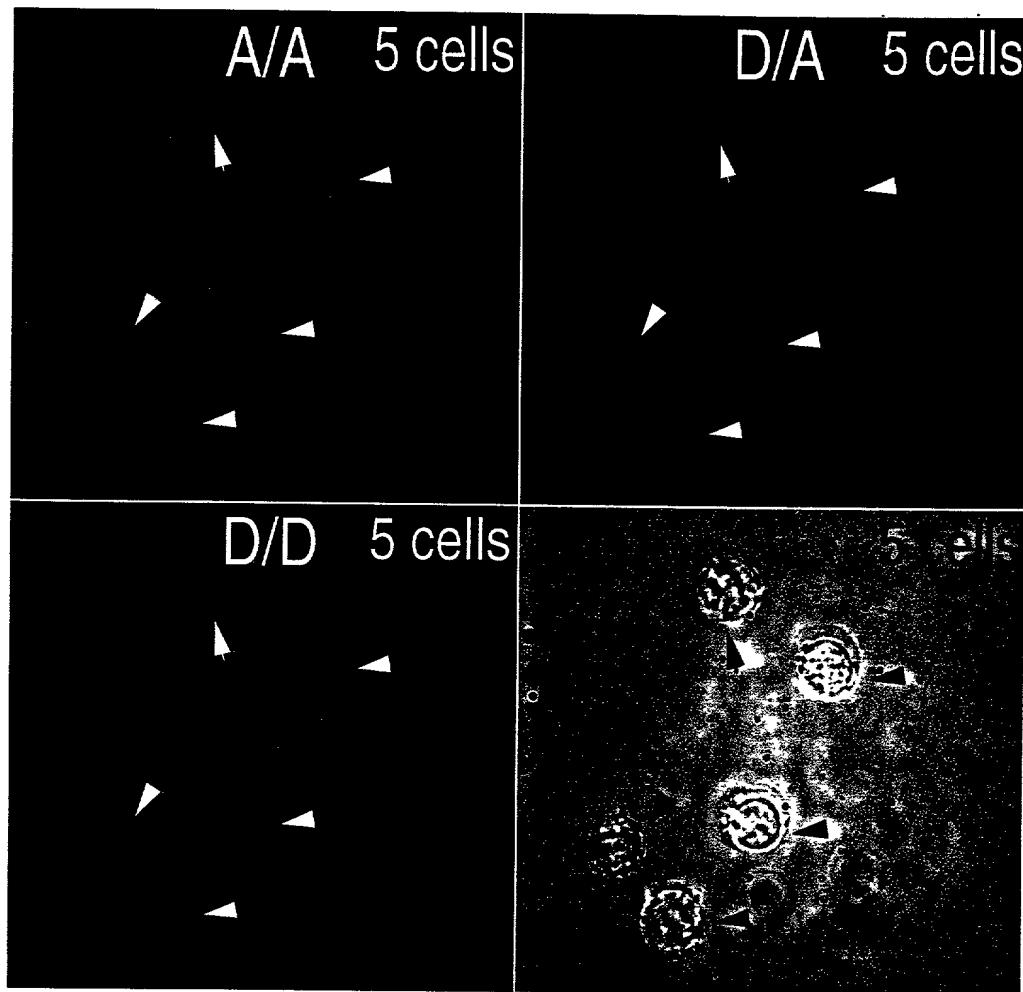


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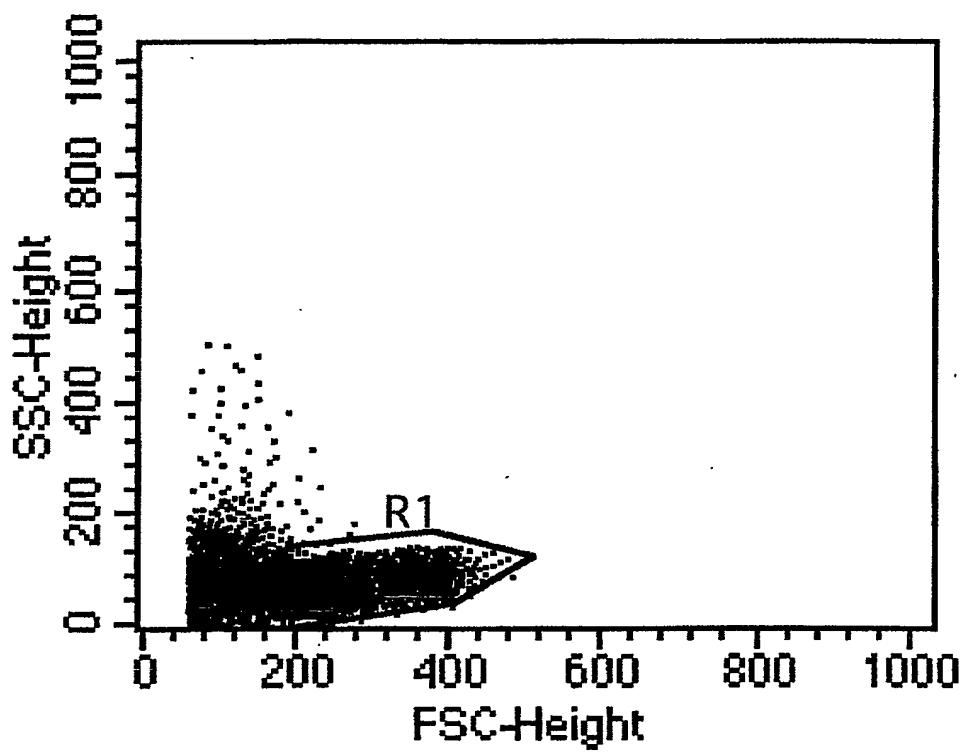
**Fig.74**



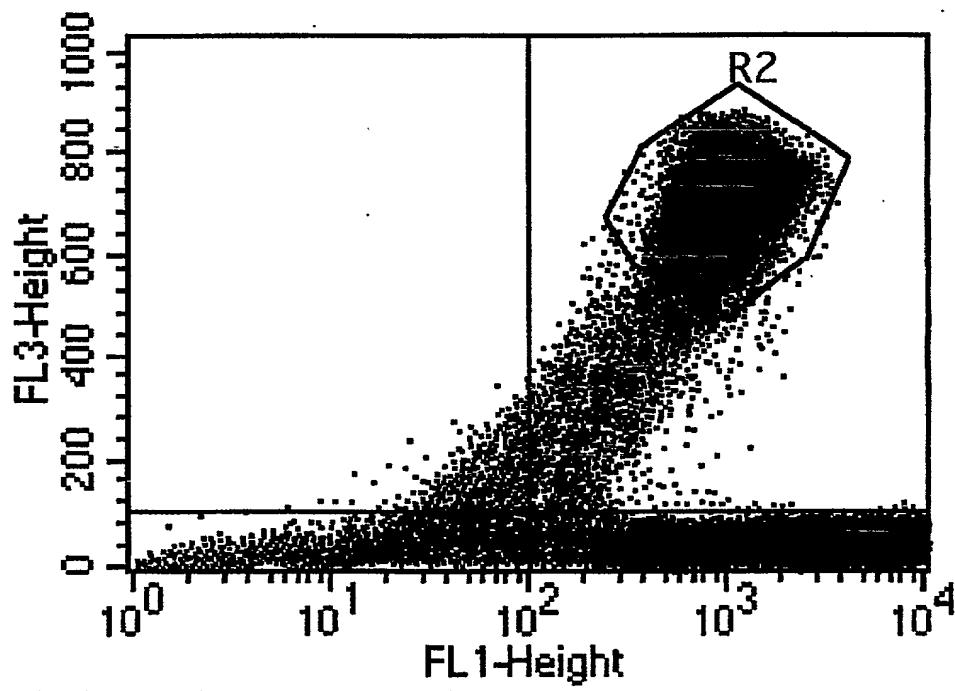
**Fig.75**



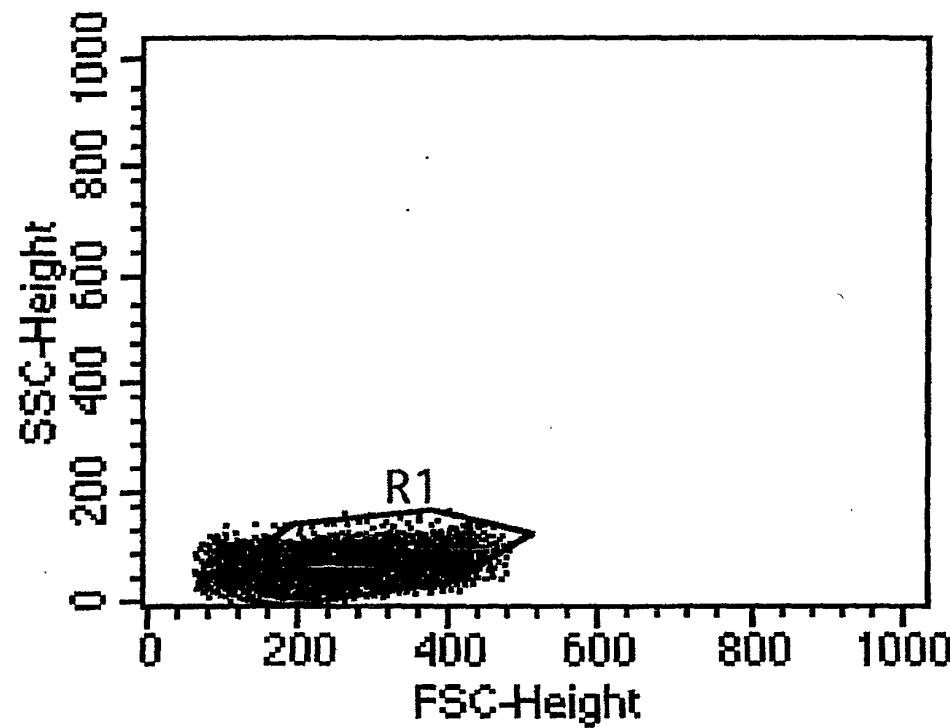
**Fig.76**



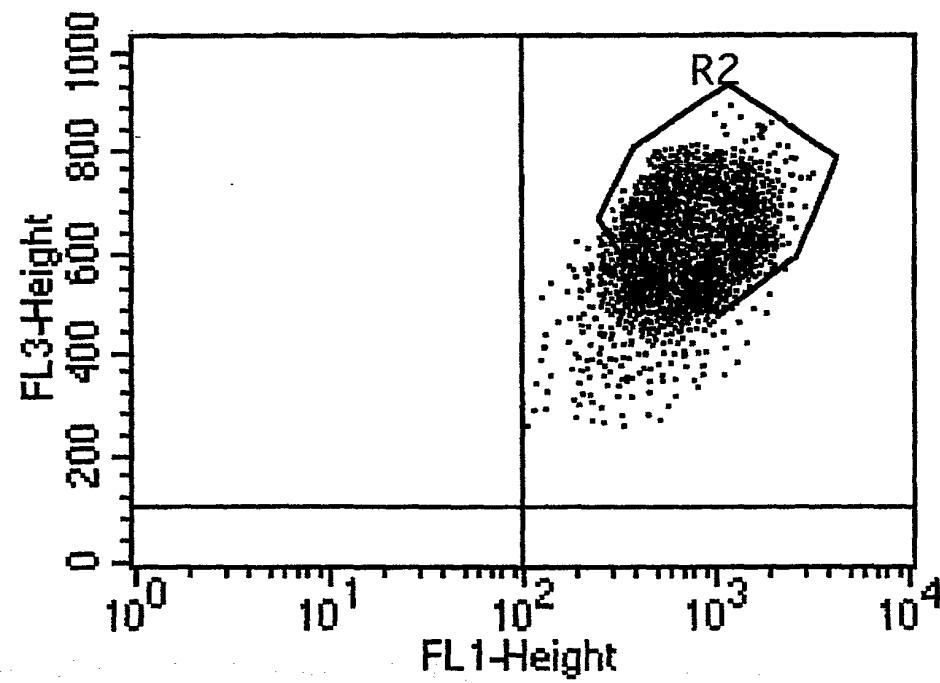
**Fig.77**



**Fig.78**



**Fig.79**



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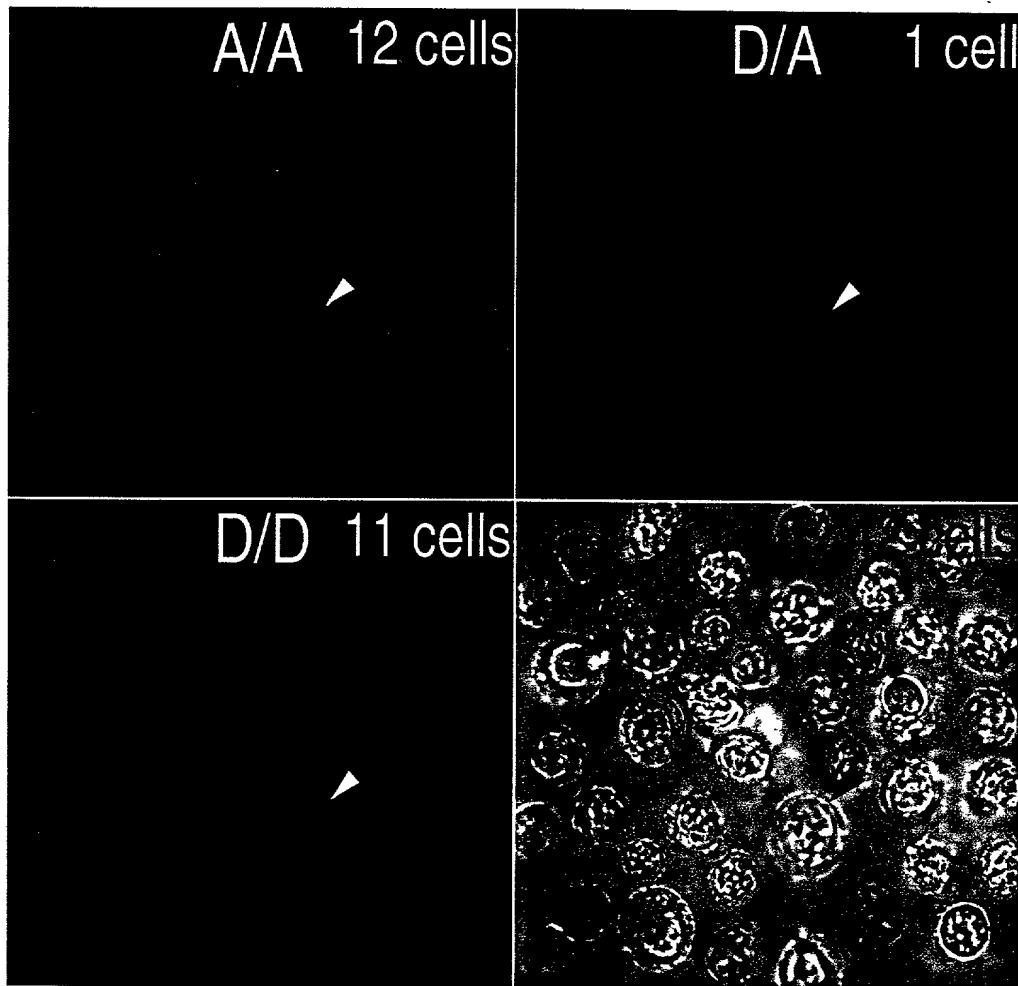
Inventors: ISHIBASHI et al.

Atty Docket No.: 400684/SOEI

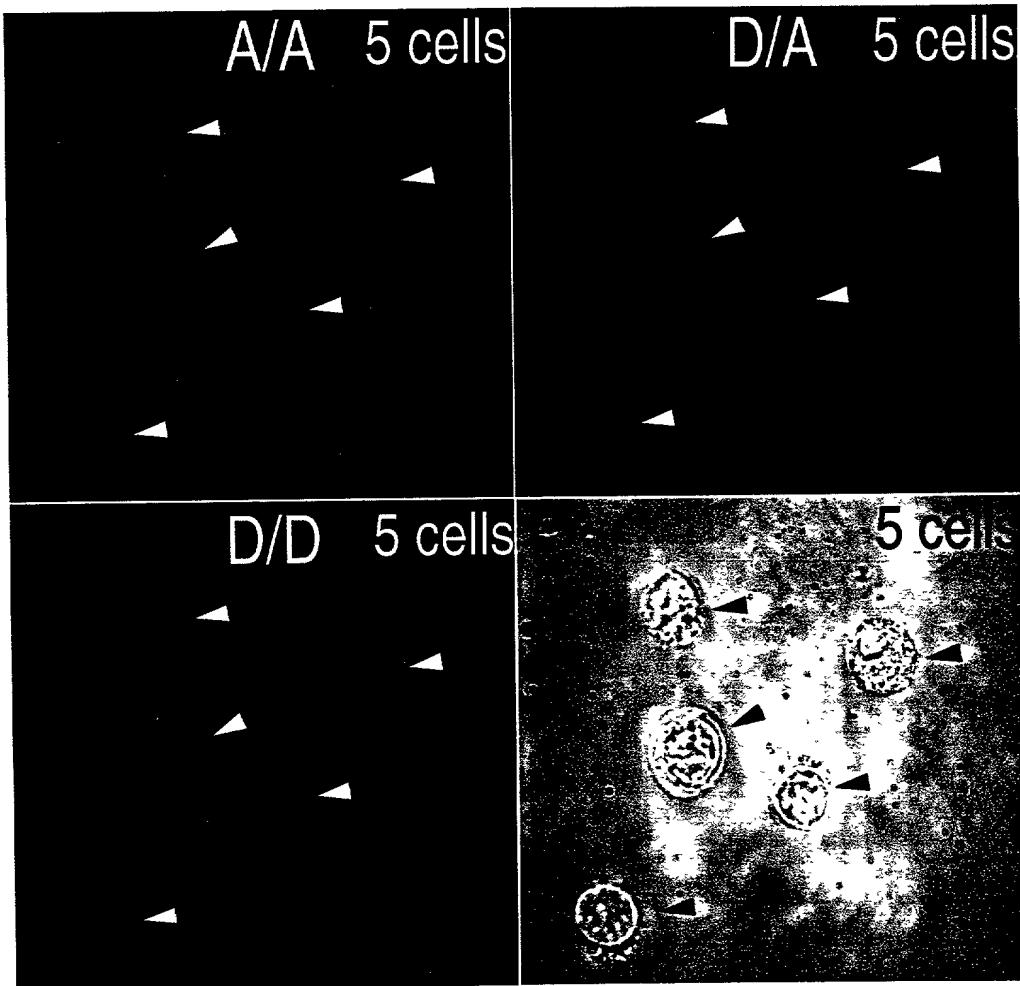
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**Fig.80**

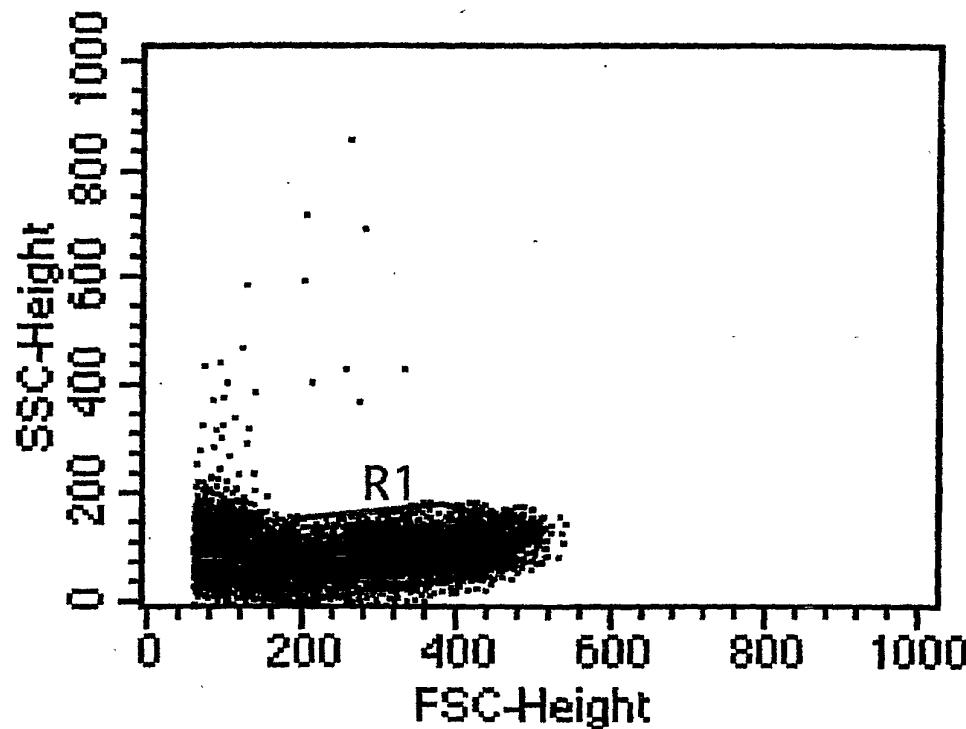


**Fig.81**

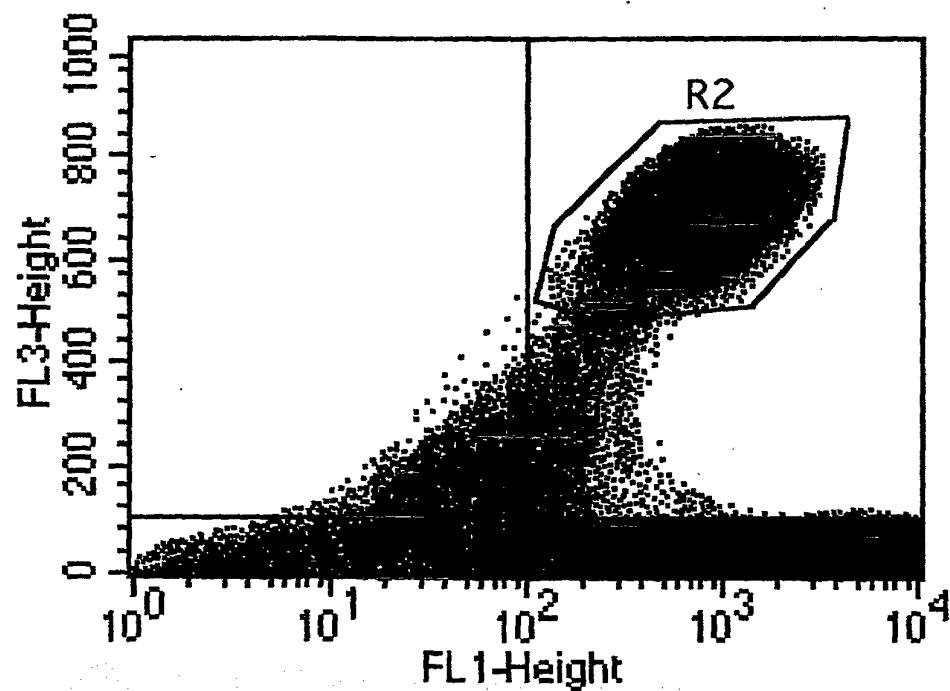


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**Fig.82**

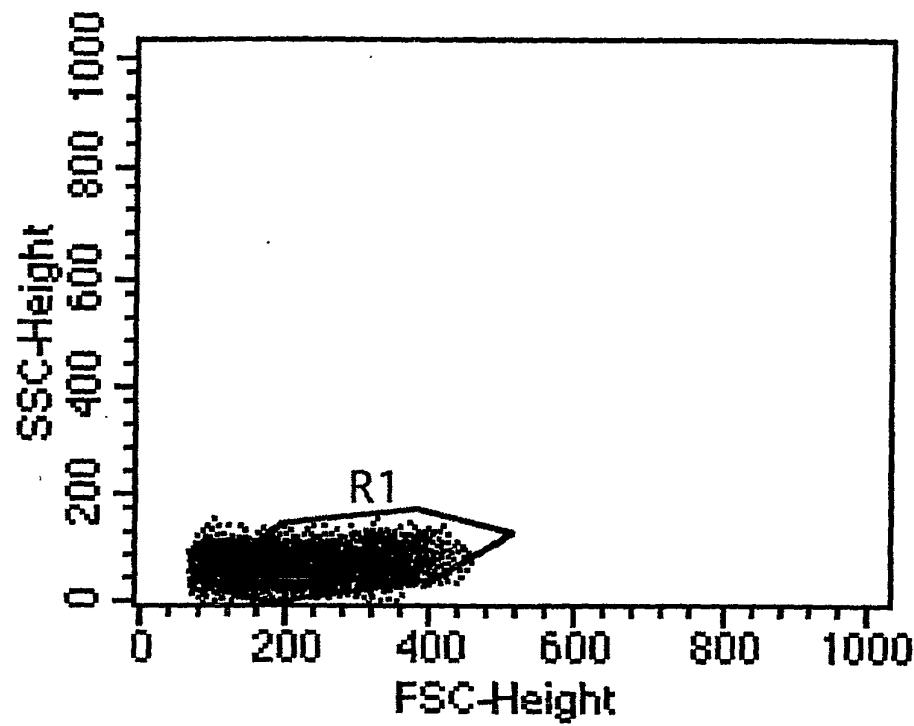


**Fig.83**

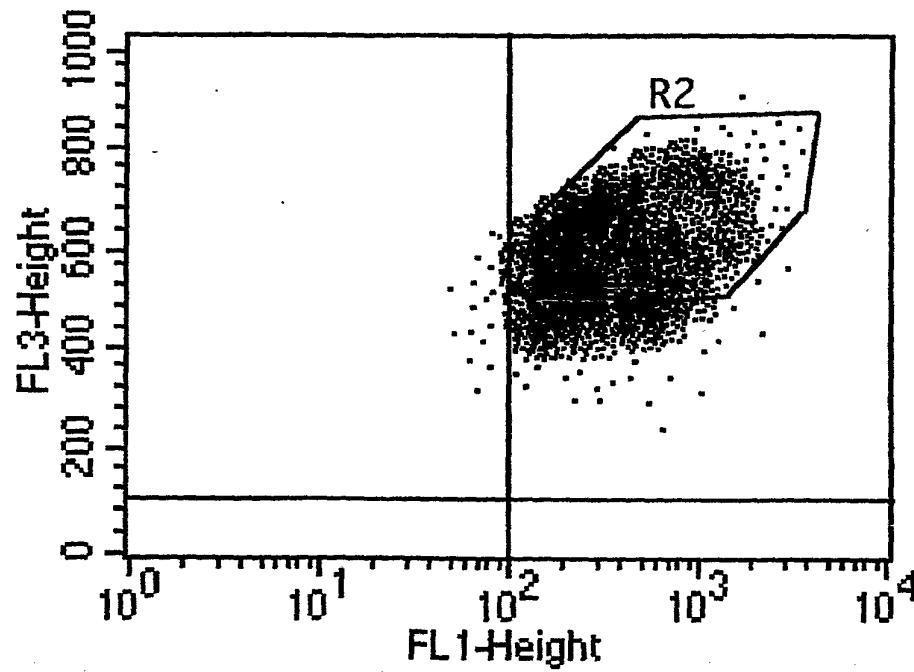


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**Fig.84**



**Fig.85**



## **Fig. 86**

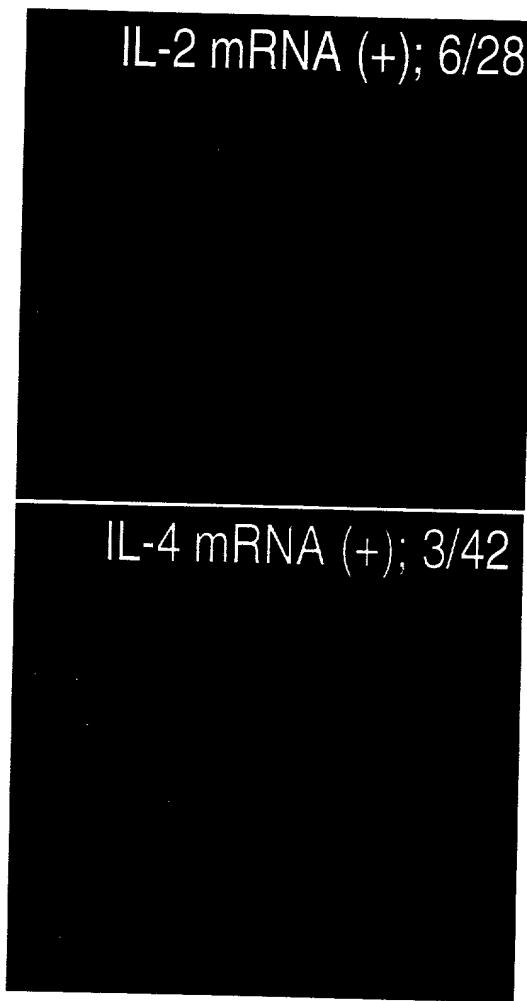


**Fig. 87**

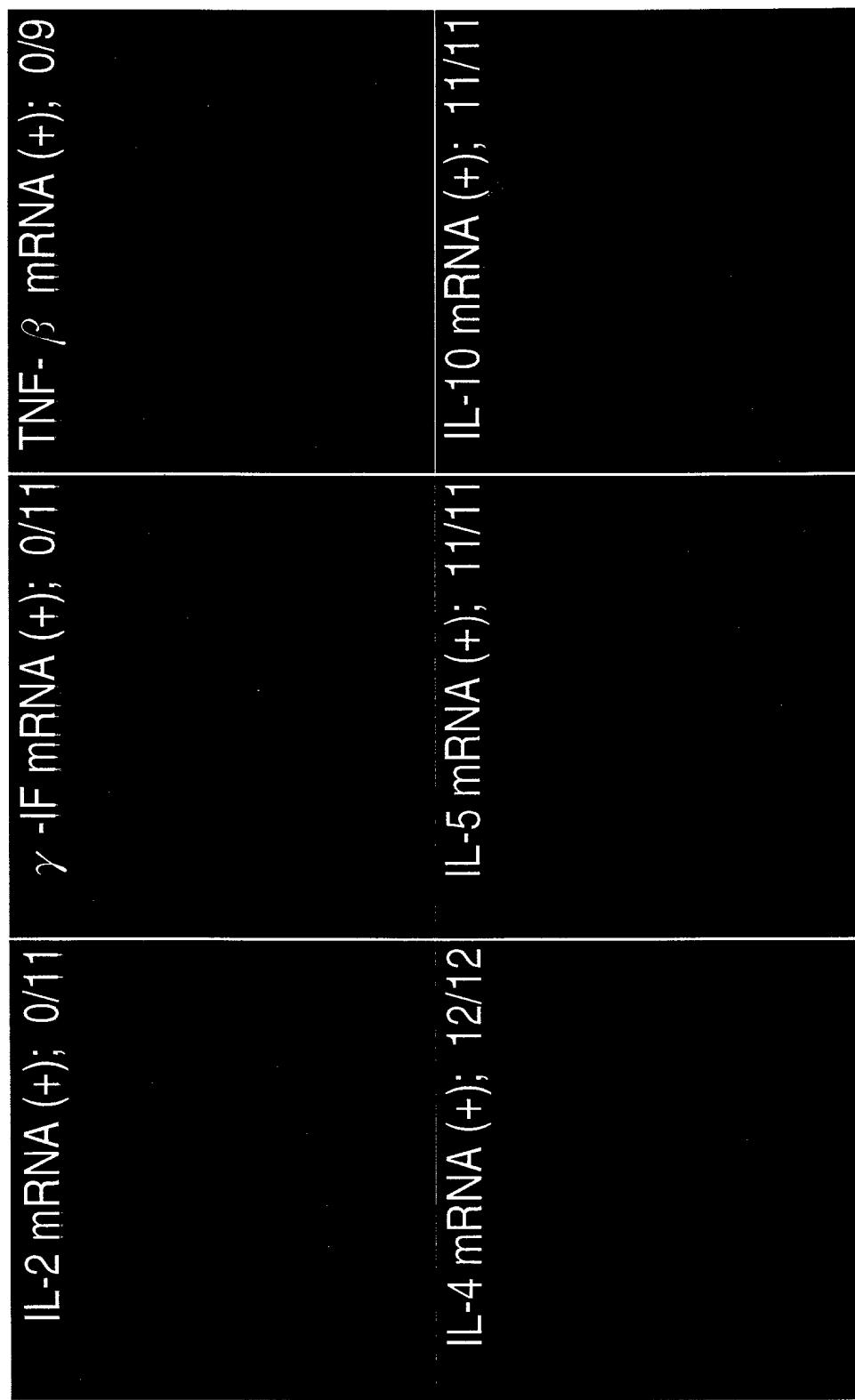
IL-2 mRNA (+); 11/11	$\gamma$ -IF mRNA (+); 14/14	TNF- $\beta$ mRNA (+); 11/11
IL-4 mRNA (+); 0/10	IL-5 mRNA (+); 0/11	IL-10 mRNA (+); 0/9

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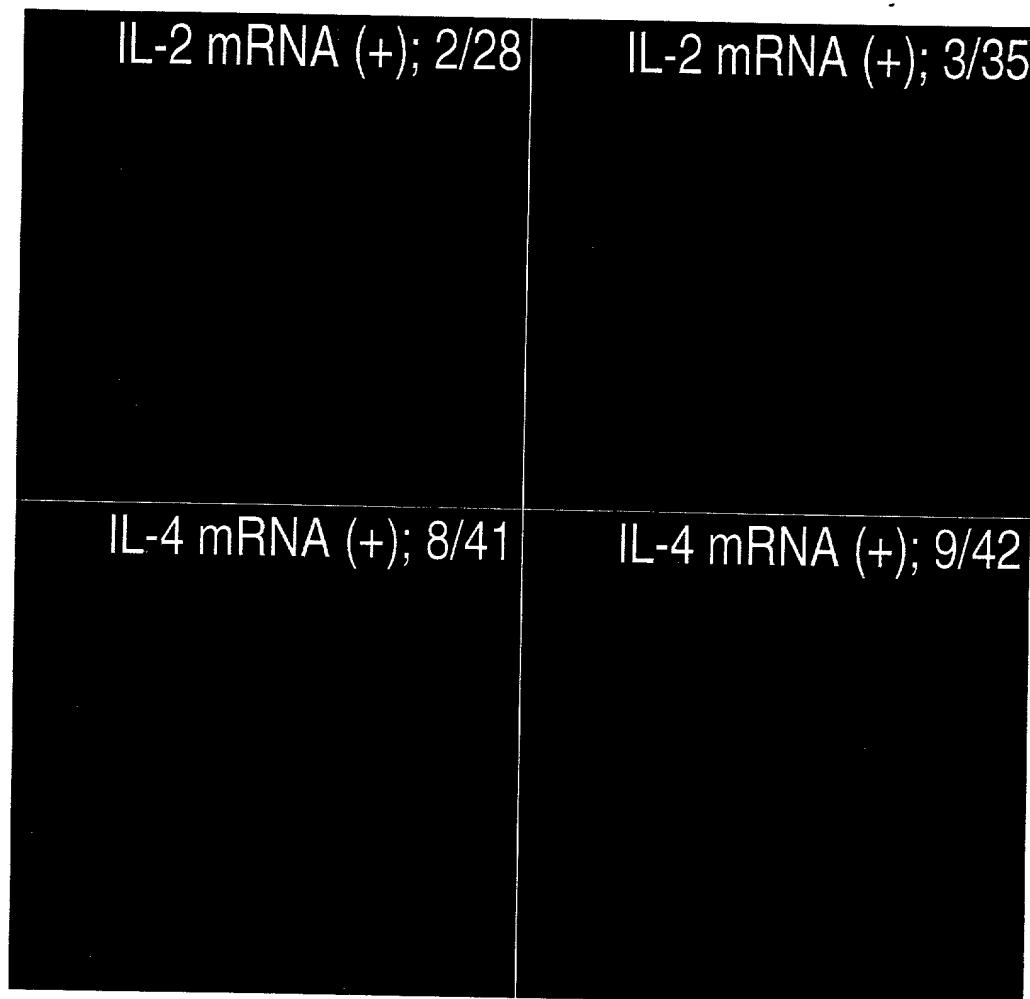
## *Fig.88*



*Fig. 89*



**Fig. 90**

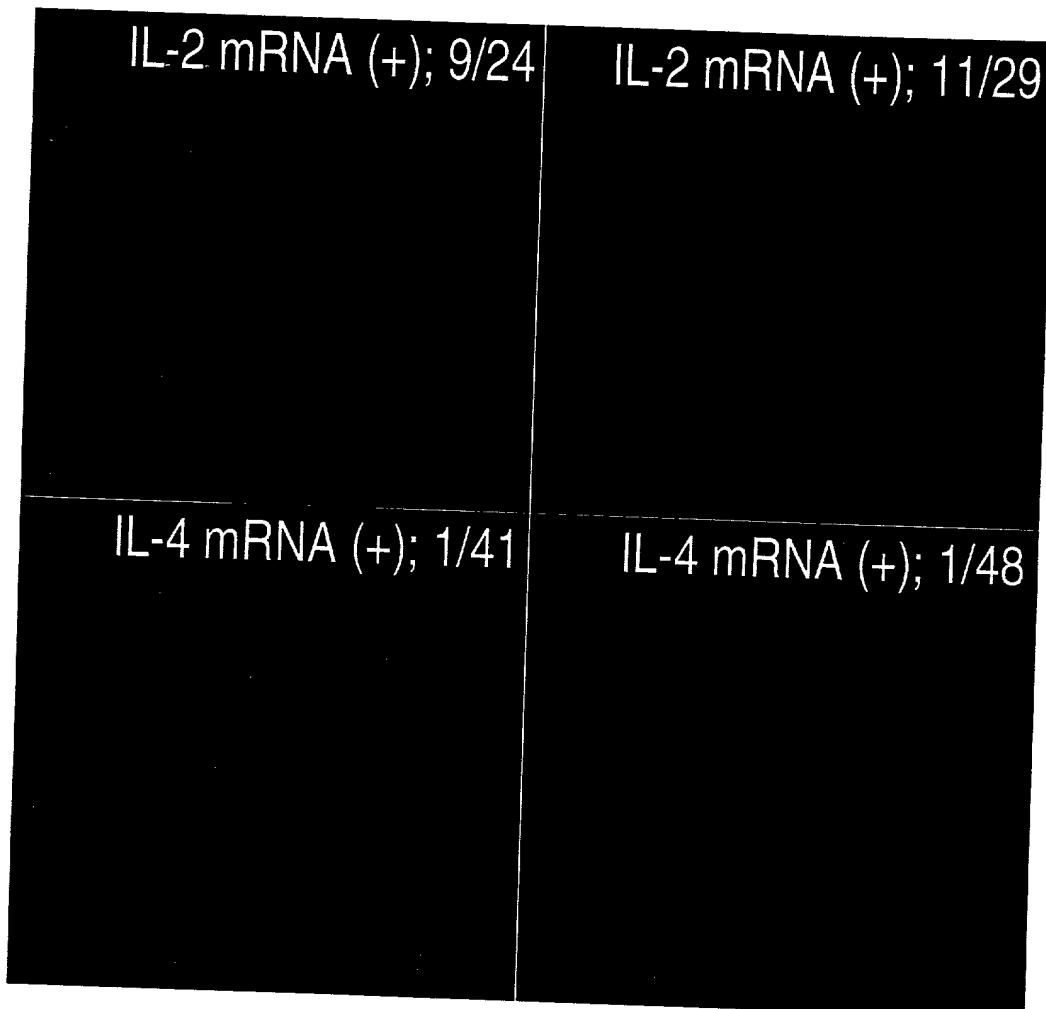


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Fig. 91

IL-2 mRNA (+); 10/10	$\gamma$ -IF mRNA (+); 9/9	TNF- $\beta$ mRNA (+); 9/9
IL-4 mRNA (+); 0/9	IL-5 mRNA (+); 0/8	IL-10 mRNA (+); 0/9

**Fig.92**



*Fig. 93*

IL-2 mRNA (+); 0/7	$\gamma$ -IF mRNA (+); 0/8	TNF- $\beta$ mRNA (+); 0/8	IL-10 mRNA (+); 9/9
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**Fig.94**

